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FIGURE 1924

PEKLREWLETAGPWGQAAWQDCQGVQGAAGQAAVSAAAALRSHPPVPLPPCGASWRHLRAHSPGEGAALPSAATRF
CGPCAAGASCGAAAHHAVGGAGTAGARPARLHLTHAEVTGAAPAAGHLPRPSRPAVARLCTPPAG

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FIGURE 1925

ATGCGCGATCTCCCGGAGCATGCGCAGCAGCGGGCGCCGACGCGGGGCGGTGCCTGGTGACCGCGCGCGCTCCCGG
AAGTGTGCCGGCGTTCGCGCGAAGGTTTCAGCAGGGAGCCGTGGGCCGGGCGCGCGGTTCCCGGCACGTGTCTCGGC
ACGTGGCAGCGCGCCTGGCCCTGGGCTTGGAGGCGCCGGCGCCCTGGATCCGCCGGCCGTGGTTCGCCGAGTTCGGT
GTCGTCCCTTGACCATCGCCGACGCGTTCATTGCAGCCGGCGAGAGCTCAGCTCCGACCCCGCCGCGCCCCGCGCT
TCCCAGGAGGTTTCATCTGCTCCTTCCCTGACTGCAGCGCCAATTACAGCAAAGCCTGGAAGCTTGACGCGCACCT
GTGCAAGCACACGGGGGAGAGACCATTGTTTGTGACTATGAAGGGTGTGGCAAGGCCTTCATCAGGGACTACCA
TCTGAGCCGCCACATTCTGACTCACACAGGAGAAAAGCCGTTTGTGTTGTGTCAGCCAATGGCTGTGATCAAAAATT
CAACACAAAATCAAACCTTGAAGAAACATTTTGAACGCAAACATGAAAATCAACAAAAACAATATATATGCAGTTT
TGAAGACTGTAAGAAGACCTTTAAGAAACATCAGCAGCTGAAAATCCATCAGTGCCAGAATACCAATGAACCTCT
ATTCAAGTGTACCCAGGAAGGATGTGGGAAACACTTTCATCACCCAGCAAGCTGAAACGACATGCCAAGGCCCA
CGAGGGCTATGTATGTCAAAAAGGATGTTCCCTTGTGGCAAAAACATGGACGGAACCTTCTGAAACATGTGAGAGA
AACCATAAAGAGGAAATACTATGTGAAGTATGCCGGAAAACATTTAAACGCAAAGATTACCTTAAGCAACACAT
GAAAACATCATGCCCCAGAAAGGGATGTATGTGCTGTCCAAGAGAAGGCTGTGGAAGAACCTATACAACTGTGTT
TAATCTCCAAAGCCATATCCTCTCCTTCCATGAGGAAAAGCCGCCCTTTTGTGTGTGAACATGCTGGCTGTGGCAA
AACATTTGCAATGAAACAAAGTCTCACTAGGCATGCTGTTGTACATGATCCTGACAAGAAGAAAATGAAGCTCAA
AGTCAAAAAATCTCGTGA AAAACGGGAGTTTGGCCTCTCATCTCAGTGGATATATCCTCCCAAAAGGAAAACAAGG
GCAAGGCTTATCTTTGTGTCAAAAACGGAGAGTCACCCAACTGTGTGGAAGACAAGATGCTCTCGACAGTTGCAGT
ACTTACCCTTGGCTAAGAACTGCACTGCTTTGTTTAAAGGACTGCAGACCAAGGAGTCGAGCTTTCTCTCAGAGC
ATGCTTTTCTTTATTAAATTACTGATGCAG

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FIGURE 1926

MRSSGADAGRCLVTARAPGSVPASREGSAGSRGPGARFPARVSARGSAPGPGLGGAGALDPPAVVAESVSSLTIA
DAFIAAGESSAPTPPRPALPRRFICSFPDCSANYSKAWKLD AHLCKHTGERPFVCDYEGCGKAFIRDYHLSRHIL
THTGEKPFVCAANGCDQKFNTKSNLKKHFERKHENQQKQYICSFEDCKKTFKKHQQLKIHQCQNTNEPLFKCTQE
GCGKHFASPSKLKRHAKAHEGYVCQKGCSFVAKTWTELLKHVRETHKEEILCEVCRKTFKRKDYLKQHMKTHAPE
RDVCRCPREGCGRTYTTVFNLQSHILSFHEESRPFVCEHAGCGKTFAMKQSLTRHAVVHDPDKKKMKLVKKSRE
KREFGLSSQWIYPPKRKQGQGLSLCQNGESPNCVEDKMLSTVAVLTIG

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FIGURE 1927

GCCACAGTGCTCCGGATCCTCCAATCTTCGCTCCTCCAATCTCCGCTCCTCCACCCAGTTCAGGAACCCGCGACC
GCTCGCAGCGCTCTCTTGACCACTATGAGCCTCCTGTCCAGCCGCGCGGCCCGTGTCCCCGGTCCCTTCGAGCTCC
TTGTGCGCGCTGTTGGTGCTGCTGCTGCTGCTGACGCAGCCAGGGCCCATCGCCAGCGCTGGTCCCTGCCGCTGCT
GTGTTGAGAGAGCTGCGTTGCGTTTGTTTACAGACCACGCAAGGAGTTCATCCCAAAATGATCAGTAATCTGCAA
GTGTTGCGCCATAGGCCACAGTGCTCCAAGGTGGAAGTGGTAGCCTCCCTGAAGAACGGGAAGGAAATTTGTCTT
GATCCAGAAGCCCCCTTTCTAAAGAAAGTCATCCAGAAAATTTTGGACGGTGGAACAAGGAAAACTGATTAAGA
GAAATGAGCACGCATGGAAGTTTCCAGTCTTCAGCAGAGAAGTTTTCTGGAGGTCTCTGAACCCAGGGAAGA
CAAGAAGGAAAGATTTTGTGTTGTTTGTATTTGTTTTTCCAGTAGTTAGCTTTCTTCCTGGATTCCTCACTT
TGAAGAGTGTGAGGAAAACCTATGTTTGCCGCTTAAGCTTTCAGCTCAGCTAATGAAGTGTTTAGCATAGTACCT
CTGCTATTTGCTGTTATTTTATCTGCTATGCTATTGAAGTTTTGGCAATTGACTATAGTGTGAGCCAGGAATCAC
TGGCTGTTAATCTTTCAAAGTGTCTTGAATTGTAGGTGACTATTATATTTCCAAGAAATATTCCTTAAGATATTA
ACTGAGAAGGCTGTGGATTTAATGTGGAAATGATGTTTCATAAGAATTCTGTTGATGGAAATACACTGTTATCTT
CACTTTTATAAGAAATAGGAAATATTTAATGTTTCTTGGGGAATATGTTAGAGAATTTCTTACTCTTGATTGT
GGGATACTATTTAATTATTTCACTTTAGAAAGCTGAGTGTTTCACACCTTATCTATGTAGAATATATTTCCTTAT
TCAGAATTTCTAAAAGTTTAAGTTCTATGAGGGCTAATATCTTATCTTCCTATAATTTTAGACATTCTTTATCTT
TTTAGTATGGCAAACCTGCCATCATTTACTTTTAAACTTTGATTTTATATGCTATTTATTAAGTATTTTATTAGGA
GTACCATAATTCTGGTAGCTAAATATATATTTTAGATAGATGAAGAAGCTAGAAAACAGGCAAATTCCTGACTGC
TAGTTTATATAGAAATGTATTCTTTTAGTTTTTAAAGTAAAGGCAAACCTTAACAATGACTTGTTACTCTGAAAGTT
TTGGAAACGTATTCAAACAATTTGAATATAAATTTATCATTTAGTTATAAAAAATATATAGCGACATCCTCGAGGC
CCTAGCATTTCTCCTTGATAGGGGACCAGAGAGAGCTTGGAATGTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AA

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FIGURE 1928

MSLLSSRAARVPGPSSSLCALLVLLLLLTQPGPIASAGPAAAVLRELRCVCLQTTQGVHPKMISNLQVFAIGPQC
SKVEVVASLKNGKEICLDPEAPFLKKVIQKILDGGNKEN

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FIGURE 1929

CGCCTCTTCACGGCACTGGGATCCGCATCTGCCTGGGATCATCAAGCCCTAGAAGCTGGGTTTCTTTAAATTAGG
GCTGCCGTTTTCTGTTTCTCCCTGGGCTGCGGAAAGCCAGAAGATTTTATCTAGCTTATACAAGGCTGCTGGTGT
TCCCTCTTTTTTTCCACGAGGGTGTTTTTGGCTGCAATTGC**ATG**AAATCCCAATGGTGTAGACCAGTGGCGATGG
ATCTAGGAGTTTACCAACTGAGACATTTTTCAATTTCTTTCTTGTCATCCTTGCTGGGGACTGAAAACGCTTCTG
TGAGACTTGATAATAGCTCCTCTGGTGCAAGTGTGGTAGCTATTGACAACAAAATCGAGCAAGCTATGGATCTAG
TGAAAAGCCATTTGATGTATGCGGTCAGAGAAGAAGTGGAGGTCTCAAAGAGCAAATCAAAGAATAATAGAGA
AAAATTTCCAGCTGGAGCAGGAGAACAATCTGCTGAAGACACTGGCCAGTCTTGAGCAGCTTGCCCAGTTTCAGG
CCCAGCTGCAGACTGGCTCCCCCCTGCCACCACCCAGCCACAGGGCACCACACAGCCCCCGCCAGCCAGCAT
CGCAGGGCTCAGGACCAACCGCA**TAG**CTGCCTATGCCCCGCAGAACTGGCTGCTGCGTGTGAACGAACAGACG
GAGAAGATGTGCTAGGGAGAATCTGCCTCCACAGTCACCCATTTTATTGCTCGCTGCGAAAGAGACGTGAGACTG
ACATATGCCATTATCTCTTTTCCAGTATTAAACACTCATATGCTTATGGCTTGGAGAAATTTCTTAGTTGGGTGA
ATTAAAGGTTAATCCGAGAATTAGCATGGATATACCGGGACCTCATGCAGCTTGGCAGATATCTGAGAAATGGTT
TAATTCATGCTCAGGAGCTGTGTGCCTTTCCATCCCTTCCGGCTCCCTACCCCTCACTTCCAAGGGTTCTCTCTC
CTGCTTGCGCTTAGTGTCTACATGGGGTTGTGAAGCGATGGAGCTCCTCACTGGACTCGCCTCTCTCCTCTCCT
CCCCCAGGAGGAACTTGAAAGGAGGGTAAAAAGACTAAAATGAGGGGGAACAGAGTTCAGTGTACAAATTTGAC
AACTGTCACCAAAATTCATAAAAAACAATAGTACTGTGCCTCTTTCTTCTCAAACAATGGATGACACAAAACAT
GAGAGTGACAAAATGGTGACAGGTAGCTGGGACCTAGGCTATCTTACCATGAAGGTTGTTTTGCTTATTGTATAT
TTGTGTATGTAGTGTAACATTTTTGTACAATAGAGGACTGTAACACTACTATTTAGGTTGTACAGATTGAAATTTAG
TTGTTTCATTGGCTGTCTGAGGAGGTGTGGACTTTTATATATAGATCTACATAAAAACTGCTACATGACAAAAAC
CACACCTAAACCCCTTTTAAGAATTTGGCACAGTTACTCACTTTGTGTAATCTGAAATCTAGCTGCTGAATACGC
TGAAGTAAATCCTTGTTCACTGAAGTCTTTCAATTGAGCTGGTTGAATACTTTGAAAAATGCTCAGTTCTAACTA
ATGAAATGGATTTCCAGTAGGGGTTTCTGCATATCACCTGTATAGTAGTTATATGCATATGTTTCTGTGCATGT
TCTCTACACAATTGTAAGGTGTCAGTGTATTTAACTGTTGCACTTGTCAACTTTCAATAAAGCATATAAATGTTG

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FIGURE 1930

MKSQWCRPVAMDLGVYQLRHFSISFLSSLLGTENASVRLDNSSSGASVVAIDNKIEQAMD LVKSHLMYAVREEVE
VLKEQIKELIEKNSQLEQENLLKTLASPEQLAQFQAQLQTGSPATTQPQGTTQPPAQPASQGS GPTA

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FIGURE 1931

GCTCATTACTTAATCTCAGGCTCCCCACTCAAAATTTTTCTGTTCAGGTGTATGATTTAAAGGGGGAGGCCTCAA
AATACTTGCAGCTTGTGTCCTGTCTGGCTTTAGAACTTCTGGTGTGTTGGTGCATTTTAACTTCAGCGCTTGCACT
TTTTCTGTGTCCTGCCTAATCTGTCTCTACCTGGGATGTCTTGCTCTTCTAAAGAGTTCTGGCCATCCCTTG
ATTTACAAATGTGATGTTGATTTGTCTAGCCCTGTATTACAGTTACTCCTATTCTGTATCCACCCACGATGCTG
TCCAGTAGATTTTTAGCCTTTGGGTTAGAAATTGTTTTTTGTTTACCATTAAATATCCATTGAGGGCTGGGTAGC
ACTGTGATTGTGATTGAGCAATTGCATGGGCTTTTTCTCTCTCAGAACACTTCCTGGGTCTGATTGGTGGCCC
AGGGAGCTGTCAGAGAAGAGCAGAGCAAATGGCCTTCACCTTGTAGATGAGATGGCAGGAGGGTGGATTGTTGGT
CTCAGTCAGTGGTGGGACAGACCAGAGCTCCGAACACTTCAGTTTTAAACTAGTTGTGAGTTTCCAATTCTGTT
AATGCTTTTTTTGGTCCTTGTTTCTGCTAAATGAATACATCCCTCCCCTTGGAACCTAATATCAATAAATAACA
AGCACAGAAATATGCAAAGGACCAGGTCTACTTGAAGAATTTGTGAGGATTAAATGGTTTATGAGTAGAGGAGG
GTCAGTCAGTAAGTATTGGCTACCTCATGTGTGTCCCATTAATACTTGGTTAGACTTATCTATTTTTTGTGTAG
TCTTCCTGTCATAAAAATTCTGTGTAAGGACCCCATGCTAGTATCAGTGAAGATTGTGAATCCAGGTGTGTCTGA
CTCTACAATAGTTCTTCACAAGCATTATATTTCACTGTGTAGTGATACTTCATTTTGAAGTTGGGAAAAGCGTC
TTTTTCACTTTAGTACAGATGGGTATAAAAGTTACTTAGGACACTAGAAAACAGTTCATTAAAAGTAAAACAAAG
CCTGGTGTCTGGGCCCCAGGAATTCAAACGTGTTTTCCAGTGTAAATCTGAATAGCTTGGTCTCTGCTCATTGCCA
GGACTGGGAGGAGTTGGGGTCCCAGGTCCCATTCTACATCCCAATTCAGTGATACTGGGATCTTAATAACCTA
CCTGTGAGGTGAAGTTGGAAAAGGCATAGGCAAGGATAGTTGTCCTGAGAGTTTTACACTTGTGAGAAAATACTG
GCAGCTTTGATTTTAAGATGTGAATAGATGATCGTGGTTCATGCCTATACTCCCTATACTCCCAG

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FIGURE 1932

MSRGGSVSKYWLP HVCPITNLVRLIYFLCSLPVIKILCKDPMLVSVKIVNPGVSDSTIVLHKHYISLCSDTSF

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FIGURE 1933A

GAGATATCCTTACCTTACTCAACAGCACCAACAAGGATTGGTGGAAAGGTGGAAGTGAACGATCGTCAGGGTTTTG
TGCCGGCTGCGTACGTGAAGAAATTGGACCCCGCCAGTCAGCCTCCCGGGAGAATCTCCTGGAGGAGCAAGGCA
GCATAGCACTGCGGCAGGAGCAGATTGACAATCAATATCATTCTCTGCTGGAAGTGGGTGAGAAGCGTAAAGGCA
TGTTGGAGAAGAGTTGCAAGAAGTTTATGTTGTTCCGTGAAGCGAATGAACTACAGCAATGGATCAATGAGAAGG
AAGCCGCTCTGACAAGTGAGGAGGTGGGAGCAGACTTGGAGCAGGTTGAGGTGCTCCAGAAGAAGTTTGATGACT
TCCAGAAGGACCTGAAGGCCAATGAGTCACGGTTGAAGGACATTAACAAGGTAGCTGAAGACCTGGAGTCTGAAG
GTCTTATGGCAGAGGAGGTGCAGGCTGTGCAACAACAGGAAGTGTATGGCATGATGCCCAGGGATGAAACTGATT
CCAAGACAGCCTCCCCGTGGAAGTCTGCTCGTCTGATGGTTCACACCGTGGCCACCTTTAATTCCATCAAGGAGC
TGAATGAGCGCTGGCGGTCCCTACAGCAGCTGGCCGAGGAACGGAGCCAGCTCTTGGGCAGCGCCCATGAAGTAC
AGAGGTTCCACAGAGATGCTGATGAAACCAAAGAATGGATTGAAGAGAAGAATCAAGCTCTAAACACAGACAATT
ATGGACATGATCTCGCCAGTGTCCAGGCCCTGCAACGCAAGCATGAGGGCTTCGAGAGGGACCTTGCGGCTCTCG
GTGACAAGGTAAACTCCCTTGGTGAAACAGCAGAGCGCTGATCCAGTCCCATCCCGAGTCAGCAGAAGACCTGC
AGGAAAAGTGCACAGAGTTAAACCAGGCCTGGAGCAGCCTGGGGAAACGTGCAGATCAGCGCAAGGCAAAGTTGG
GTGACTCCCACGACCTGCAGCGCTTCCTTAGCGATTTCCGGGACCTCATGTCTTGGATCAATGGAATACGGGGGT
TGGTGTCTCAGATGAGCTAGCCAAGGATGTACC GGAGCTGAGGCATTGCTGGAGCGACACCAGGGACACCGGA
CAGAAATCGATGCCAGGGCTGGCACTTTCCAGGCATTTGAGCAGTTTGACAGCAGCTGTTGGCTCACGGACACT
ATGCCAGCCCTGAGATCAAGCAGAACTTGATATTCTTGACCAGGAGCGTGCAGACCTGGAGAAGGCCTGGGTTT
AGCGCAGGATGATGCTGGATCAGTGCCTTGAACTGCAGCTGTTCCATCGGGAAGTGTGAGCAAGCTGAGAAGTGA
TGGCTGCCCGGGAGGCCTTCTTGAATACCGAAGACAAAGGAGACTCACTGGACAGCGTAGAGGCTCTGATCAAAA
AACATGAAGACTTTTGACAAAGCGATTAAACGTCCAGGAAGAGAAGATTGCTGCTCTGCAGGCCTTTGCCGACCAGC
TCATCGCTGCCGGCCATTATGCCAAGGGAGACATTTCTAGCCGGCGCAATGAGGTCTTGGACAGGTGGCGACGTC
TGAAAGCCCAGATGATTGAGAAAAGGTCAAAGCTAGGAGAATCTCAAACCCTCCAACAGTTTCAGCCGGGATGTGG
ATGAGATTGAGGCTTGGATCAGTGAAAAATTGCAAAACAGCGAGTGATGAGTCGTACAAGGATCCCAACACATCC
AGAGCAAGCACCAGAAGCACCAGGCTTTTGAAGCAGAGCTGCATGCCAACGCTGACCGGATCCGTGGGGTTATCG
ACATGGGCAACTCCCTCATTGAACGTGGAGCCTGTGCCGGCAGTGAGGATGCTGTCAAGGCCCGCCTGGCTGCCT
TAGCTGACCAGTGGCAGTTCTTGGTGCAAAAGTCAGCGGAAAAGAGCCAGAAACTGAAAGAAGCCAACAAGCAGC
AGAACTTCAACACAGGGATCAAGGACTTTGACTTCTGGCTGTCTGAGGTGGAGGCCCTGTGGCATCCGAAGATT
ATGGCAAAGACCTGGCTTCTGTGAACAACCTGCTGAAAAAGCATCAACTGCTGGAAGCAGATATATCTGCCCATG
AGGATCGCCTGAAGGACCTGAACAGCCAGGCAGACAGCCTGATGACCAGCAGTGCCCTTCGACACCTCCCAAGTAA
AGGACAAGAGGGACACCATCAACGGGCGCTTCCAGAAGATCAAGAGCATGGCGGCCCTCCCGGCGAGCCAAGCTGA
ATGAATCCCATCGCCTGCACCAGTTCTTCCGGGACATGGATGACGAGGAGTCTTGGATCAAGGAGAAGAAGCTGC
TGGTGGGCTCAGAGGACTACGGCCGGGACCTAACTGGCGTGCAGAACCTGAGGAAGAAGCACAAGCGGCTGGAAG
CAGAACTGGCTGCGCATGAGCCGGCTATTGAGGGTGTCTGGACACTGGCAAGAAGCTGTCCGATGACAACACCA
TCGGGAAAAGAGGAGATCCAGCAGCGGCTGGCGCAGTTTGTGGAGCACTGGAAAGAGCTGAAGCAGCTGGCAGCTG
CCCGGGGTCAGCGGCTGGAAGAGTCTTGGAAATATCAGCAGTTTGTAGCCAATGTGGAAGAGGAAGAAGCCTGGA
TCAATGAGAAAATGACCCCTGGTGGCCAGCGAAGATTATGGCGACACTCTTGCCGCCATCCAGGGCTTACTGAAGA
AACATGAAGCTTTTGAGACAGACTTCACCGTCCACAAGGATCGCGTGAATGATGTCTGCACCAATGGACAAGACC
TCATTAAGAAGAACAATCACCATGAGGAGAACATCTCTTCAAAGATGAAGGGCCTGAACGGGAAAGTGTGAGACC
TGGAGAAAAGCTGCAGCCCAGAGAAAGGCGAAGCTGGATGAGAACTCGGCCTTCCTTCAGTTCAACTGGAAGGCGG
ACGTGGTGGAGTCTTGGATCGGTGAAAAGGAGAAGCAGCTTGAAGACAGATGATTATGGCCGAGACCTGTCTTCTG
TGCAGACGCTCCTCACCAAACAGGAACTTTTGACGCTGGGCTGCAGGCCTTCCAGCAGGAAGGCATTGCCAACA
TCACTGCCCTCAAAGATCAGCTTCTCGCCGCCAAACACGTTTCACTCCAGGCCATCGAGGCCCCGGCACGCCTCCC
TCATGAAGAGGTGGAGCCAGCTTCTGGCCAACTCAGCCGCCCCGAAGAAGAAGCTTCTGGAGGCTCAGAGTCACT
TCCGCAAGGTGGAGGACCTCTTCCTGACCTTCGCCAAAAAGGCTTCTGCCTTCAACAGCTGGTTTTGAAATGCAG
AGGAGGACTTAACAGACCCCGTGCCTGCAACTCCTTGAAGAAAATCAAAGCTTTGCGCGAGGCCACGACGCCT
TCCGCTCCTCCCTCAGCTCTGCCAGGCTGACTTCAACCAGCTGGCCGAGCTGGACCGCCAGATCAAGAGCTTCC
GCGTAGCCTCCAACCCCTACACCTGGTTTTACCATGGAGGCCCTGGAGGAGACCTGGAGGAACCTACAGAAAATCA
TCAAGGAGAGGGAGCTGGAGCTGCAGAAGGAGCAGCGCGGCAGGAGGAGAACGACAAGCTGCGCCAGGAGTTTG

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FIGURE 1933B

CCCAGCACGCCAACGCCTTCCACCAGTGGATCCAAGAGACCAGGACATACCTCCTCGATGGGTCTGTATGGTGG
AAGAGTCGGGGACCCCTCGAATCCCAGCTTGAAGCTACCAAACGCAAGCACCAGGAAATCCGAGCCATGAGAAGTC
AGCTCAAAAAGATCGAGGACCTGGGGGGCCGCCATGGAGGAGGCCCTCATCCTGGACAACAAGTACACGGAGCACA
GCACCGTGGGCCTCGCCCAGCAGTGGGACCAGCTGGACCAGCTGGGCATGCGCATGCAGCACAACCTGGAGCAGC
AGATCCAGGCCAGGAACACAACAGGTGTGACTGAGGAGGCCCTCAAAGAATTCAGCATGATGTTTAAACACTTTG
ACTAGGACAAGTCTGGCAGGCTGAACCATCAGGAGTTCAAATCTTGCCTGCGCTCCCTGGGCTATGACCTGCCCA
TGGTGGAGGAAGGGGAACCTGACCCTGAGTTCGAGGCAATCCTGGACACGGTGGATCCGAACAGAGATGGCCATG
TCTCCTTGCAAGAATACATGGCTTTTCATGATCAGCCGCGAAACTGAGAACGTCAAGTCCAGCGAGGAGATTGAGA
GCGCCTTCCGGGCCCTCTGCTCAGAGGGAAAGCCTTACGTGACCAAGGAGGAGCTCTACCAGAACCTGACCCGGG
AACAAGCCGACTACTGCGTCTCCACATGAAGCCCTACGTGGACGGCAAGGGCCGCGAGCTCCCCACCGCGTTCG
ACTACGTGGAGTTCACCCGCTCGCTTTTCGTGAACTGAGCCACTCCCTGGGTACCCACCCCTCGCTGCTTGCCC
TGCGTCGCCTTGCTGCATGTCCGCTCCTCTGTGTGCTCTCACTTTCCACTGTAACCTTAAGCCTGCTTAGCTTGG
AATAAGACTTAGGAGAATATGGTGCTTCACTAACCCGCTTCCGGTCCAGTCACAATCATCATGTCACTGTGGGGA
CCCAGATCTGTGTCTTGAAGCAGCTGCCCTCATTCCGACTTCAGAAAATCGAAGCAGCTGGCTCCTCCCCTTGTT
CTCTCTCCCACCCCTCCCCCAAATCTGTTTTTCATGTAAAAGACAAATAAATGATGACTTCCCCCAAAAAAAAAAA
AAAAAAAAC

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FIGURE 1934A

CTCACACATAGACACGCACACACACCCTTTCTCGCACACACACACACACACACACTCTCACACATTCTCAC
ATGCTAGACCCTTCTAAGCAGCTTGTCCGTTTTTACACATGTATCTGAACTCTCCTGCATCACTCTTGGCCATTT
TCTCGCATTGCTTTTGGCGTTTTTATTTAGATCAGTACTTGATTTTCATTTTCCAGTCTACTTT
GGGTTCTCGCAGTGGATAATTTAGCCAAAATGTTTTCTTGTGGAGACATTAGCTGACAATCCCACCACAGAC
TGGCTTGTACGTCTCCAGGGAGACCTAAACCTGGCTCCCTCCCACCGCAGTTCTTAATATTGTGGATAAGAG
ATCCATCTTCTCATTCTGGATACCTACTTAGTGCTCATGGAAAGAAGGGGTGCCCTGCCCAGCCCCAGCTGCTAA
GCTCACACCTCCTGTCAAAAAGTCCCAGGACATGCACGACGAGAGGAGCAAGCTGGTGAATGAGTATGCGTGTCG
AGTGCTGGAACCTTCTGGGGATGGGGCATCGTCTGTTTGTGCCTCGGCTTCTGGCGACCTCAAAGGAAGACCTTCT
GCAGGCTGATTTTGAAGGTGCTTTAAAGTTCTTTAGAGTTCAGCTTCCAAAGAGATACAGGGCAGAGGAAAATGC
AAGAAGACTGATGGAGCAGGCTTGCAATATTAAAGTACCAACCAAGAAGCTGAAGAAATATGAGAAAGAATATCA
GACAATGCGAGAGAGTCACTGCAACAGGAAGACCCAATGGATAGATACAAGAGGGAGAACCGAAGATTACAGGA
GGCCAGCATGAGGTTGGAACAAGAGAATGATGACCTTGCCCATGAACTAGTAACAAGCAAAATTGCTCTACGGAA
TGACTTGATCAGGCAGAAGACAAGGCAGATGTGTTGAATAAAGAGCTCCTTTTGACCAAAACAGAGGCTGGTGGGA
GACTGAAGAGGAGAAGAGGAAGCAAGAGGAAGAGACTGCCAGCTAAAAGAAGTCTTCAGGAAACAGCTAGAGAA
GGCAGAATATGAAATAAAGAAGACTACAGCTATCATTGCTGAGTATAAACAGATCTGTTTCGAGTTGAGTACCAG
GCTGGAGAAACAGCAAGCAGCCAGCAAGGAGGAGCTGGAAGTGGTAAAGGGTAAGATGATGGCATGCAAACACTG
CAGTGACATTTTCAGCAAGGAGGGTGCTTTGAACTAGCAGCCACAGGCAGAGAGGACCAGGGAATTGAAACAGA
TGATGAGAAGGACTCACTTAAGAAGCAGCTGAGAGAGATGGAAGTGGAACTGGCACAACCAAACTGCAGTTGGT
GGAGGCCAAGTGTAATAATTCAGGAACCTGAACATCAGAGAGGAGCCCTTATGAATGAAATCCAAGCTGCGAAAAA
CTCTTGGTTTAGCAAAACCCTGAACCTATCAAAACGGCCACGGGCACCCAGCCATTGCAGCCAGCACC GGTCAC
CCAGCCACCCAAGGAGAGCACATTAGTTCCAGCCTTACCCAAGCACAAAGAGCACAAATGTTCAAACCAATGGAAATC
TGGGAGGATTCTTCTGTTGCTCCCTTTGAAGGAAAGTCAAGGAGGCCAGAAAAACAAGCCAGAATTTTTTCAGTAGC
TCTCACTCTTCTTGTATGACACTTTTTCAAAGGGATGCTATTTAACTGACCTGTTCTATGTTGAATACCTATTT
TCCAGCTTCTGGAAGGCCATGTTTCAGATCCATCATAGTATTACACATTATTTTGTTCCTGATGTTTAGTTGGA
AATAAGTAATTCAGAACTAAATGCTTTTTTATTTAGAAATTATTCATAATTATTTTTATCTTACATAAAAAATGGAG
ACATCTGTTATTCCAAGGTTGAAGTGATAAGAAGATCTTGTACAGGAAAAAAAAAAATTGAAACCTAAACATC
TTAAGTTTTTCAGGATTTATTCAGATAAAGCACACTGTGGGGCCAGGCATGACCCTCTCAGGTTTCTCCTGAGC
CTGATTCCCAGGGAAGTGTTAATCCTGTCCAAAGGAAAGAACCAATCAGCGATCATTGGTTTACTTTCATTTTCT
GTTCCGGTACATCTGGAATGAAGTGCCAGGAATAGACGGGCTGTTTCAGATTATACGCTAGGTAAAGGAAGTGA
ATTTTAATAAGTGAGGTCAGGATCATTGGGCTGTGGTATTCTAACAGATCCTTTTAAGAATGCCACATAGGAC
TTGTGAGTTCCTAAGTACACCAAAGTATGGACACAGATGTGACTTCTGGCAATTATAAAGTTAAAGGTGGATATT
GCACCTTACAGACTTAGGGAGCCTTTACCAGAGACGCCTAAAAGCCCCAGGTTTCAGCCATTGTGCTGAATAGAG
TGGAATATAGAACCAGGGACAGAGTATTTCAATTAACGTTGATATATACTTGCTAAGGAAACACTAACAATACTG
TAACCTTTGTTAAAGGACATAGTATTGAAATGGGAAATAGAGGTCAGGCTCACATCATCTTAGTTTAATGCTGGGC
AACTTTTTTCTGATTTCTGTAGTTCCCTGAAAATGTGTCCTTCGTACCCATAAAGAGATACAAATGCATTTGTAA
CATTTTTGATTGAATATAAAACCTTTACAGAAATACTTATCTCATGGAAAGGTAAAGCTATTGTTTAAAAATTAG
TGGAAATATTTTTTCAATTATATTTAACATGCCTATAAAAATAGTCCTTGCCAGGAAATTATTTGATAAGAGCAAA
ACTATTTTTATTTTATAAACTATTTTGGAGGCCTCTGATCCTTTCAAACCAACCAAACTACTATTAGATATGTAC
AATAACATTTGTTGATATTAATCATTGGCCTCATGTTGAACATATTATTTGCAAAGAATCTTAAACTCTGTAGT
GCCAGAATGATTCTCATCTGTGCCATATTTTGCAATTAAAAGTAACACACCCTTAGAAGAATCAAATAAGAGCCA
TCTACATCCCAGGAGGATGCACCAAGTTGCTCACAGTGGATCTTTTCTCTAAAATGATCTTTTATGTTCTAAAA
AGTGAAATCCCCTTTATCTGTGTTTATATTCTCTACAGCCATAAACTGATGTGATTGTTATGTTATACTCATC
AGATAATACTTTTCTTACATAAAATCTTTCATTGTTGTTCTGACATCTTTCATTACAAAATTTATTTTCTTAACAA
AAAGGAACATAACCCAGCATTCCAAGTGCTGTGTTGGCTTTAACATTCTCTACATGGTGGTCTAGATAAGCTAA
TTTTTTTTTTTTTTTTTTTTTGTAAAATGTAATAGCTAGAAAATGTTATCTTCGCGCTTGTTTTTGTAAATCATTT
AGTATAGGCTGTTAGCTTTACTGGTACTTTACGCTTTGATTCCAAGAAGCCTTGTGCAGTTGCCCTTATCAAATGG
CCAGCTAAATTAAAGATGCTCTTTTGTGTTGTGAATTTCATAGTTCTGTACAGAGCTTGTTTCAATTTACAAAAA
TAAGTACATTCCACAGAATGCCTAAATTGTGTAATTTCTTTTAAATAATAGTAGGTGAGGGAGAAACATAATGGC

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FIGURE 1934B

TCTAGGTCAATCCCTTATCTAAAGACCTTGTTCAACTTCATAGTCCCTTTTCCTTTTAAAGAGGAGAAGAGAAAAA
TCCCCCTGGCCAGGCATGGTGGCTCACATCTGTAATCCCAGCACCTTTGGGAGGCTGAGGTGGGTGGATCACCTA
AGGTCAGGAGTTTGAGACCAGCCTGGCCAACATGGTGAAACCCTATCTCTACTGCAAAATACAAAAATTAGCCGG
GCTTGGTGGCGGGTGCCTGTAATCCCAGCTACTCGGGAGGTTGAGGCAGGAGAATCACTTGAACCCAGGAGGCAG
AGGTTGCAGTGGGCCAAGATTACGGCATTACATTCCATCCAGCCTGGGCGACAAGAGCAAAATTCCTGCTCGAAA
AATCACCAGGTACATACCTCTCAAGTTTGATAAGTCCATCTTTTGAGTTTTCTTTTAGCTCTTTCAAAAGATTAC
GAGGGCAATACATATTTTTTTTTTTTTTATTCTCCAGCCCATATCATACTTGGGTATGCCTGTTGGTACCATAA
GCCTAAACTCTCCTTCACTGCAATGCCTTTGAGTCAGTAGCAATAGTAAAGACTAGAAACAAAGAAAAATTAGAA
TTTGGTATGTGATATGATTGTTTCATACAATATGTTATAATAGCAATATTCCAAACAATATGTCCTTCACTGTCTA
TTGTTGGAACACTCATGCATCCCAGCATGAAGTAACTCCTAGTTTTAATTTTAGTTATTTTGAGATATATTTGAG
AATTGCATCTCTTCTCTTGAATTTCACTTAGAAGAGATTAACCAGCCAAATATCCAGGAAAGTTTCAAAACATTC
TAGTGTTTTTTCATCCTTTGCTAGGATGCACCTCTGTACAAAACATTCCTCTGAAAATCTAATATTTGCAGTATCTA
AGAATTGATCATTTCTATTTTCATTAAATTTCTGTGGAAAAAATTAAATGAATGAAATTCAACTTCATAATTCAGT
TCATCAGCTTTTGTATCTTGAGAATCTAAACACGCTCTXXAAATCTGAAAGAAACCAAGCTGGATTTTGCAGTGCA
TATGTTTGCTAGCTTCCCACATCCTGAACCATGTCAAAATTTGGTTTTATTTAGTTACATATAATTTAATGCAAA
GAAATTTCTGTTACTTAATGTTCTGTTTATTTATGAGTGCCTATCAGGAACACTAATAGGAATGCCATTCAACCAG
TGCTTTCTGCCCCCTCTCCCAGCTGTTAAATTAGTACTTCTTCATTGGCTTTCTGAAATGTCTGAGTAAAGTAGA
AAAGCAACCTTTGTATGGATGTGGGGATATTTAATAGTATGTATCTTGTTCATTTTTTTTCTATGATGTATTAA
TATTTATTTTTCTCCAACCCCTGCTCCATTTTCTTAAATATTTTCCAGTTAATAACTAGTTGCTTTTATTTCTTA
GCTGAAGTGAGAAAACCAACGGAACAAATACAGATTGGGCAGAGGAGATAGAGTTACATCTTTAAAGGAGTGA
GCCAGTCACCCAGGAGAATCACATGTGTAAGTATGTTAGGGGTTTTAAGTCTTCATACTTTCACTAAAAATCTGTCT
ACTAACTCTCCACCAACCTTTGCATCAAAACACTTAGGTACCTGCCTGATTAGGGGGGCCCCCTTTAAGGGAAAAA
ACTTTTAAAAAATTAAATGCCTTGGTTTTGTTTTATCTTCTGGGAAAGAACACTTTTACTTGATTAGCAAGATGA
TTATATTATATAACTTGCCCTTAAAAACACTCCAAAAATACTGACTCCTTTTCTCCAATTACAAATGAGTGTGAAG
AAATTTCTGTTGTATGATTTGAACACTATTAGGTTTGTATGTGTGTTTTAATTGGAAGAATTTTATATAGAGTATCT
CTGCTGCTTTTGTTTACCTGGGTACCACACAACCAAAATACACATTGAGATTTCAAGAAATGATGATGAAAGCCAG
AAGGCCAGACCACAGCTCTGCAGCCTGTTTCTTACAACCCAGATATAAAACTCTTCTCGTCGCCATGCTGATAGT
CACACTGAACTAGAACTGTCCCAACACATTCTTCTCTCATAATGGCTTCCATTTAATACAGGCAAAGCCCTT
TACCTTAGCAAATTTCTTTATCTTTCAAAGTGACCAAAATGAGGACTTCAACCTTGGCTGCACCTCAATAGGAGA
TGCTGATCTTGAGTTGTAATGAGAAAAGTGGGCATATAGGAGATTTTAGTGACTGCAGTCAGCTGTCTGGCATT
CTTTCTCAGTTTGCATCTAAAAGACTACATATGTCAAGCTTATCTCCACCTGAATTTGCTGCCTGCTATAAAAAAC
ATTTCAATTAATATATCCCATTTCTTCTTACCTCCATCTCTGGTTTGTCTATTAGTGATTCTGAAAAGCTTAAGAA
AAAAGAATCATTGAGTAGAAAGTGAACATTTTAAAGTTATTTTCTTTTTCATTGGCAATTAGTTAACATGTAAAA
TCTTTTCCATTAACTGTATAACTTTTAATAACTATATATTATATATGGGATAAAATATATGGACTGAATTGTGA
GAATATAAATGCATCGAAAGACTCTGGTGTCTGATGAAAGCACAGAATAAGGCTGGAGATGGTCCCAGATCCAAGA
TGTCCCAAAAGCCTTTTGTATCAGTTTCTCTATTTTGGTATTTTGCATAATGCATGGATCCTTAGTTCAAATGA
GGGACAAAGTTTCTCAGTCAGCCCCACTTCTTTCTTTCTAACCTCTACCTTTCCCTTGCAGAGGAGGTAGTAGA
GATTCTGGAATTGTCTATTTTTATGAATTCCATTATTTTGTCCATGGCATCTCTAATGAAAACAGGTTCTAGAAAT
AAAGGAGTTGATTAGTCTGAACAGTACTAATTAACCTACAAAATAAACGTTAGTGATCAGCCTCTTCTCTATAAA
CAATGACCAATTAGACGTTTCCGTAATTCCATGTATTATGTATAGTACACTCTATAAATGTAAATGTAATGCTTG
TCTAAAAAGTGCAATTTATTGTACATTGTCCCAACAAATGTTTACTTTTATAATCGTTATGAACTTGAATTGGAT
TAGTATCTTGTTTTTATGTGTGAATGAAGCCTTGTGAAAATAACAAATGCAACTGAGAAGGTAACAAGGTGACTG
TTTTTGTGAGCCAGTGATGTTTTCAATGCTTTGTGTTGCCCCCTTTGGCCCCATTAAAGCAGTAATAAACATTTGTT
CTGAAGTCC

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FIGURE 1935

MEEGVPCPAPAAKLTPPVKKSQDMHDESKLVNEYACRVLELLGMGHRLEFVPRLATSKE DLLQADFEGALKFFR
VQLPKRYRAEENARRLMEQACNIKVP TKKLKKEYEKEYQTMRESQLQQEDPMDRYKRENRRLQEASMRLEQENDDL
AHELVTSKIALRNDLDQAEDKADVLNKELLLTKQRLVETEEEEKRKQEEETAQLKEVFRKQLEKA EYEI KKT TAI I
AEYKQICSQLSTRLEKQQAASKEELEVVGKMMACKHCSDIFSKEGALKLAATGREDQGIETDDEKDSLKKQLRE
MELELAQTKLQLVEAKCKIQELEHQRGALMNEIQAAKNSWFSKTLNSIKTATGTQPLQ PAPVTQPPKEST

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FIGURE 1936

GGCACGAGGCGCCAGTCCCCTAACCCCTGAGGCTGCCGCGCGGCGGTCACTGCGCCGGGGTAGTGGGCCCCAGTGT
TGCGCTCTCTGGCCGTTCCCTTACACTTTGCTTCAGGCTCCAGTGCAGGGGCGTAGTGGGATATGGCCAACTCGGG
CTGCAAGGACGTCACGGGTCCAGATGAGGAGAGTTTTCTGTACTTTGCCTACGGCAGCAACCTGCTGACAGAGAG
GATCCACCTCCGAAACCCCTCGGCGGCGTTCTTCTGTGTGGCCCGCCTGCAGGATTTTAAGCTTGACTTTGGCAA
TTCCCAAGGCAAAACAAGTCAAACCTGGCATGGAGGGATAGCCACCATTTTTTCAGAGTCCTGGCGATGAAGTGTG
GGGAGTAGTATGGAAAATGAACAAAAGCAATTTAAATTCTCTGGATGAGCAAGAAGGGGTAAAAAGTGGAATGTA
TGTGTAAATAGAAAGTTAAAGTTGCAACTCAAGAAGGAAAAGAAATAACCTGTCGAAGTTATCTGATGACAAATTA
CGAAAGTGCTCCCCCATCCCCACAGTATAAAAAGATTATTTGCATGGGTGCAAAAGAAAATGGTTTGCCGCTGGA
GTATCAAGAGAAGTTAAAGCAATAGAACCAAATGACTATACAGGAAAGGTCTCAGAAGAAAATTGAAGACATCAT
CAAAAAGGGGGAAACACAACTCTTTTAGAACATAACAGAATATATCTAAGGGTATTCTATGTGCTAATATAAAAT
ATTTTTAACACTTGAGAACAGGGATCTGGGGGATCTCCACGTTTGATCCGTTTTTCAGCAGTGCTCTGAAGGAGTA
TCTTACTTGGGTGATTCCTTGTTTTTAGACTATAAAAAGAACTGGGATAGGAGTTAGACAATTTAAAAGGGGTG
TATGAGGGCCTGAAATATGTGACAAATGAATGTGAGTACCCCTTCTGTGAACACTGAAAGCTATTCTCTTGAATT
GATCTTAAGTGTCTCCTTGCTCTGGTAAAAGATAGATTTGTAGCTCACTTGATGATGGTGCTGGTGAATTGCTCT
GCTCTGTCTGAGATTTTTTAAAAATCAGCTTAATGAGAGTAATCTGCAGACAATTGATAATAACATTTTGAAAATT
GGAAAGATGGTATACTGTTTTTTAGAGGAATAAACGTATTTGTGGTTTAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1937

MANSGCKDVTGPDEESFLYFAYGSNLLTERIHLRNPSAAFFCVARLQDFKLDFGNSQGKTSQTWHGGIATIFQSP
GDEVWGVVWKMNKSNSLDEQEGVKSGMYVVIEVKVATQEGKEITCRSYLMTNYESAPPSQYKKIICMGAKEN
GLPLEYQEKLKAIEPNDYTGKVSEEIEDIIKKGETQTL

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FIGURE 1938

GTTGGAAATAACTATAACTTAAAGCAAATCTAACCAGTAAGCTATCAAAAAGAAAAATTATATAATTACCAAGT
AGAGTTAATTTACCTGAGTTCTATGAACATATTCATTATTAAAGGAAACCTCAAATTATTGTCCCATTGGAAGC
AAAAATACATTTATAAATAGCCATTTCTCGTTTTAAAAAACTAATAACATTGAAATAAACAGAACTTAAGCTC
TTCTAGTTTGCCAAAAACCAGAAAGCAAACATCATATACTAAATGATGAAATGCCAAAGCCATTTCCATTATATC
AGAAACGAGACTAATACTTCCTGTCATCATTTACATGATTGTCACTATTATTAAGCATTGTTTTGGTAGTTCTAG
CCATTGCAGTAAGACAGTAGACAGAAAGTCAAATAATTGGCATAAATATTGGAAACAAAAAATTATTTCTACTTT
GAAATGATACAATAGAAATAGCTGGAAAGCCCAGGGGACTCTAGTAGAAAACAGCAATGAGGATTAAATGTAAGA
CACTTTGGAAAGCTGATGTGTGAGAAATGTACACAACTAATAGCTTTCTCTTTATTAGTAGTCATCAGTTGAAA
ATGGAAATGACCAAGCAAAAATATTCAACAGAATGACAAACTATTGGTTACACCTAGGAATAAATGTGTTAAAG
AAAGGTACAGAGTGAAGGTAATGACCCTTATGAAGAAAACCTTGATATTATAAAAAGTAGTCCTTTTCTCCCTCAG
TTTTTGTCCTTCAAATGTTTACTTGGGACAGATCGTGGTTTACATGATGGTCCTCAAACATATTGTGAACAACAT
TAAAAAAGACACATTTTACTCAATAAGTAACATTTTTTGAGAAGCTACTATGTGCTAGGGACCTAGTTTTT
AGTGCAGTGGTCTCCAAAATAATGTACTGGCAGTATGGGAAGAGCGTTTAGAACACTGTACCTTTTTATTGGGA
GGAGAAAAGAAACCTTTGTCAAATATTTAACACCTGCTGCCAGAGGTCTGTAGATTTGATGATTGTGTGCCATGA
GTTACACACAGACTCCTAAATCAGTTTCACCTGTGGTGTCTCATTCTGTTTACTTTGAGCATTGTGCATTCTAT
ATCTGCTTAGTTATATGGATTTATTTCGTCCCATATAATATGTGTAGCCACATGGACACATGTTTTAAAAGGTTTT
AAATTCTGCAAGATAGTGACGATGATGTAAACACAAGAAAAGGGCAAATGGATACATTTTCTACTCTGTGCTCA
TCAAACATATTACAGGATAAAATTATTGGCTATCTAATAAAAACACAGACTAATAAGACCTGATAAGTTGGACAA
AATGTTTAAAAATTAACATGAAGATGATAGGAAGTATGAATCTATATTCAGTGTCAATTAATGTCAAACCTTTACC
TTATGGTATATTGTACTTTGAGAAATTA

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FIGURE 1939

MSNLYLMVYCTLRN

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FIGURE 1940A

GCGAAAACAAAAATGCCGCCTAATTGGTCACTGGCCCTTTCTCATGAATGAAGGAGGTTTCTGTTTTAAGAAATA
AAGTGACTCCTCAGCCGTTGATTCACTGCCCACAGGGAGATTTTGAGCAGAGGCTTCTAGGCTCCGTAGAAATT
TGCATACAGCTTCCACTTCCTGCTTCAGAGCCTGTTCTTCTACTTACCTGGGCCCCGAGAAGGTGGAGGGAGACG
AGAAGCCGCCGAGAGCCGACTACCTCCGGGCCAGTCTGTCTGTCCGTGGTGGATCTAAGAACTAGAAATGAAC
CGAAGCATTCTGTGGAGGTTGATGAATCAGAACCATAACCAAGTCAGTTGCTGAAACCAATCCCAGAATATTCC
CCGGAAGAGGAATCAGAACCACCTGCTCCAAATATAAGGAACATGGCACCCAACAGCTTGTCTGCACCCACAATG
CTTCACAATTCTCCGGAGACTTTTCTCAAGCTCACTCAACCCTGAAACTTGCAAATCACCAGCGGCCTGTATCC
CGGCAGGTCACCTGCCTGCGCACTCAAGTTCTGGAGGACAGTGAAGACAGTTTCTGCAGGAGACACCCAGGCCTG
GGCAAAGCTTTCCCTTCTGGGTGCTCTGCAGTCAGCGAGCCTGCGTCTGAGTCTGTGGTTGGAGCCCTCCCTGCA
GAGCATCAGTTTTTCAATTTATGAAAAACGTAATCAATGGCTGGTATCTCAGCTTTCAGCGGCTTCTCCTGACACT
GGCCATGACTCAGACAAATCAGACCAAAGTTTACCTAATGCCTCAGCAGACTCCTTGGGCGGTAGCCAGGAGATG
GTGCAACGGCCCCAGCCTCACAGGAACCGAGCAGGCCTGGATCTGCCAACCATAGACACGGGATATGATTCCCAG
CCCCAGGATGTCTGGGCATCAGGCAGCTGGAAAGGCCCTGCCCTCACCTCCGTGTGTTACCCCCAGGACCTC
CCCAGACCTCTCAGGTCCAGGGAGTTCCCTCAGTTTGAACCTCAGAGGTATCCAGCATGTGCACAGATGCTGCCT
CCCAATCTTTCCCCACATGCTCCATGGAATATCATTACCATTGTCTGGAAGTCCCGATCACCAGGTGCCATAT
GGCCATGACTACCTCGAGCAGCCTACCAGCAAGTGATCCAGCCGGCTCTGCCTGGGCAGCCCTGCCTGGAGCC
AGTGTGAGAGGCCTGCACCCTGTGCAGAAGGTTATCCTGAATTATCCAGCCCCTGGGACCAAGAAGAGAGGCCC
GCACAGAGAGACTGCTCCTTTCCGGGGCTTTCAAGGCACCAGGACCAGCCACATCACCAGCCACCTAATAGAGCT
GGTGCTCCTGGGGAGTCCTTGGAGTGCCCTGCAGAGCTGAGACCACAGGTTCCCCAGCCTCCGTCCCCAGCTGCT
GTGCCTAGACCCCCTAGCAACCCTCCAGCCAGAGGAACTCTAAAAACAAGCAATTTGCCAGAAGAATTGCGGAAA
GTCTTTTATCACTTATTTCGATGGACACAGCTATGGAGGTGGTGAAATTCGTGAACTTTTTGTGGTAAATGGCTTC
CAAATGCAATTGACATATTTGAGGATAGAATCCGAGGCATTGATATCATTAAATGGATGGAGCGCTACCTTAGG
GATAAGACCGTGATGATAATCGTAGCAATCAGCCCCAAATACAAACAGGACGTGGAAGGCGCTGAGTCGCAGCTG
GACGAGGATGAGCATGGCTTACATACTAAGTACATTTCATCGAATGATGCAGATTGAGTTCATAAAACAAGGAAGC
ATGAATTTTCAGATTTCATCCCTGTGCTCTTCCCAAATGCTAAGAAGGAGCATGTGCCACCTGGCTTCAGAACACT
CATGTCTACAGCTGGCCCAAGAATAAAAAAACATCCTGCTGCGGCTGCTGAGAGAGGAAGAGTATGTGGCTCCT
CCACGGGGGCCCTCTGCCACCCCTTCAGGTGGTTCCCTTTGACACCGTTTCATCCCAGATCACTGAGGCCAGGCC
ATGTTTGGGGCCCTTGTCTGACAGCATTCTGGCTGAGGCTGGTCGGTAGCACTCCTGGCTGGTTTTTTTCTGTT
CCTCCCCGAGAGGCCCTCTGGCCCCAGGAAACCTGTTGTGCAGAGCTCTTCCCCGAGACCTCCACACACCCCTG
GCTTTGAAGTGAGTCTGTGACTGCTCTGCATTCTCTGCTTTTAAAAAACCATTCAGGTGCCAGTGTCCTCATA
TGTTCTCTGACAGTTTGATGTGTCCATTCTGGGCCTCTCAGTGCTTAGCAAGTAGATAATGTAAGGGATGTGG
CAGCAAAAGGAAATGACTACAAACACTCTCCTATCAATCACTTCAGGCTACTTTTATGAGTTAGCCAGATGCTTG
TGTATCCTCAGACCAAACCTGATTTCATGTACAAATAATAAAATGTTTACTCTTTTGTAAGATTATGTTTTACTTAT
CTCAAAGGAGATACATATAATTTATAATGATATGGGCAGTTGCTTCCAGGGACATCAACAAAGCTGCTTAGATAT
AATATTAGATAAATATAACAGACCACTCTGTATTAATGGATTAAAGCCAGCTAGTTAAACAACCCCTTTTTAACCA
TAATCATGGAAGCTTTATTCTTGCAATAAAGATTTTTAGGCTGGGCGCAGTGGCTCACACCTGTAATCCCAGCAC
TTTGGGAAGCTAAGGCAGGCAGATCATTGAGGTGAGGAGTTTGAGACCAGCCTGGCCAACATGGTGAAACCCCA
TCTCTGCTAAAAATTACAAGAAAGTTAGCCGGGCATGGTGGTGTGCACCTGTAATCCCAGCTACTCGGGAGGCTGA
GGCAGGAGAATCACTTGAACCCGGGAGGCAGAGGTTGCAGTGAGCCGAGATCATGTCACTGCACTCTAGCTTGGG
AGACAGAGCGAGACTCCGTCTCAAAAAACAAACAAACAAATAAAACACCCATTTTTAACAACAACTTTATATA
GCATACAGCCATGATTCTAAATAGTATGATTATGGTTCTCAGGATCTGACTACATAGGTAAAAATATTTGCATAT
GTGTATGAAGTGTTGGGGGATGTAGGCTAGAATTGTAGTCTGTGTTCTAATTTTGGTTCTACCACCAATTAGCTG
TATGACCTTTAGCAAGTCCTTTAACTTTTCTTAGATTCCAGGGACTCATTTATAAAATGACATGGACAAAAGCAT
CTCTAATCACTCTAAAAGATTTGAAGTCTAGGACCTAAATCTAAATACTCTTTTGAGGAGTGACTGAGTTTTCA
TTTTCATAATTATGTCTCTCAGAGGACAAATTTACATTTTCTTAACAGAGACATTTTCTTCTCTTTTTTTTTGT
TTGAGACAGAGTCTCGCTCTGTCTCAGGCTGGAGTGCAGTGCTGCAATCTTGGCTCACTGCAACCTGCGCCTC
CTGGGTTCAAGTGATTCTTCTGCCTCAACCTCCCAAGTAGCTAGACCTATAGGCGCCTGCCACCATGCCAGCTA
ATTTTTGTATTTTTAGTAGAGACAGGGTTTCATATTGGCCAGACTGGTCTCGAATCCTGACCTTGTGATCCGCC

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FIGURE 1940B

CACCTCGGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACCACACCCAGCCAACATTTTCCTCTTTTAAAAA
ATATCTTCTCACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGCAGGCGGATCATGAGGTCAGGAGATCAAGAC
CATCCTGGCTAACACGGTGAACTCCATCTCTACTAAAAATACAAAAAAATAGCCGGGCGTGTTGGCAGGCGCC
TGTAAGTCCCAGCTACTGGGGAGGCTGAGGCAGGAAAATGGTGTCAACCCGGGAGGCGGAGCTTGCAGTGAGCCGA
GATTGCGCCACTGCACTCCAGCCTGGGCAATAGAGTGAGACTCCGTCTCAAAAAAAAAAAAAAAAAAAAAAACTT
CAACAAATACCTCAGGTTGATAATTTTGGATATCTATCTGTATCTATATATCTTGTTTACCTGGTCTCCAGAAAA
AGAACACATACATATCCATATATAAAATATGTATACATGTATCAAATCTACGTAACTATAAAGGTGGGATGG
CTTTAATTATGGCCCAAGCTACTAAGACAATGAAGACTTTTTGGGGCTGCAAGCTACTGCTTCCCTTCTTTATCT
ACTAGCCTCTTAAACAAGGCTCACTTGTGCTACAAGACAGTCCACCGTTTTGTTTTTTTTTCTTTTTTTTGAGA
CAGGGTCTCACTCTTTCCCAGGCTGCAGTACAGTGACACAGTCTCAGCTCACTGCAGCTTTGACCTTGCCGGGCT
CAGGTGACCCTTACACTTCAGCCTCCCAAGTAGCAGGGACTATAGGTGTGCACCAACATGCTTGGTTAATTTTTG
TATTTTTTGTAGAGACAGGGTTTTGCCATGTTGTCCAGGCTAGTCTCGAATTCCTGGGCTCAAGTGATTACCTG
CCTTGGCCTCCCAAAGTGCTAGGATTACAGATGGGAGCCACCACGCCAGCCAGTCCAGCTCTTATATGTAGCA
CAGGGAAAGGACAAATACTTGTCAACTATAAATAAGAAACATTGCTAATGCATTGCAAAGAACACTAGTTTCATT
TACTTTATAACTTAGATGTCTACTGGGTGAGACGAATGTCTTTGTTCTTTAAAAAATAGGAAAAGAGAAGAAAA
CTAGCATAACATAAGTACTCATTTGTAAGACTTTCTGACATGTAACATTAGTTCCGTAGTTTTGAGACCTGGTAG
AACTGACTTTCATATTTGGATAACCTGGAAAAACCCCAAACACAACTTCAAGTCTTCTTTCTTTTTTTCATTA
TCTTTTTTAGTCTGAGGTGACACCATCATTAAGGATTCGACACCCGTTTGTAATAAAATGACATCAG

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FIGURE 1941

MNRSIPVEVDESEFYPSQLLKPIPEYSPEEESEPPAPNIRNMAPNSLSAPTMLHNSSGDFSQAHSTLKLANKHQR
VSRQVTCLRTQVLEDSSEDSFCRRHPGLGKAFPSGCSAVSEPASESVVGALPAEHQFSFMEKRNQWLVSQLSAASP
DTGHDSKSDQSLPNASADSLGGSQEMVQRPQPHRNAGLDLPTIDTGYDSQPQDVLGIRQLERPLPLTSVCYPQ
DLPRPLRSREFFQFEPQRYPACAQMLPPNLSPHAPWNYHYHCPGSPDHQVPYGHDPRAAYQQVIQPALPGQPLP
GASVRGLHPVQKVILNYPSPWDQEERPAQRDCSFPGLSRHQDQPHHQPNNRAGAPGESLECPAELRPQVPQFPSP
AAVPRPPSNPPARGTLKTSNLPEELRKVFITYSMDTAMEVVKFVNFLLVNGFQTAIDIFEDRIRGIDI IKWMERY
LRDKTVMIIVAISP KYKQDVEGAESQLDEDEHGLHTKYIHRMMQIEFIKQGS MNFRFIPVLF PNAKKEHVPTWLQ
NTHVYSWPKNKNILLRLLREEEYVAPPRGPLPLTLQVVPL

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FIGURE 1942

GGACACACACAGGAGGAGGGGTTGAGCTGCTGCCGCCGCCGCTCTGTCTGCTGCGAGTGTGGAGTCCGGGACT
GAGCTGCTGCCGCGGCGACGCCGGGGATCTTTGTGCTAGCTCCCGGCCCTTCTGCCCCGCCGCTTCCCTCAGT
CAGCGTTTGCCACTCCTCTCCGGCCGGGCGCCCTGCCTCCATTTCTGCTCTCTGTCCACCACACACACGGCCC
CCCCGATCATGGATCCGGGCAGTGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGAGCAGCAGCGGCAGCAGCA
GCAGCGACTCGGCGCCTGACTGCTGGGACCAGGCGGACATGGAAGCCCCGGGCGGGGCCCTTGCGGCGGCGGGCG
GCTTCCCTTGGCGGCGGCGGCGGAGGCCAGCGGGGAGAACTCAGCGCGGCCTTACGCCGGCAACTCAACGTCAAC
GCCAAGCCCTTCGTGCCAACGTCCACGCCGCCGAGTTTCGTGCCGTCTTCTGCGGGGCCGGCAGCGCCGCCA
CCCCCAGCTGGCGGCGCCGCCAATAACCACGGAGCCGGCAGCGGCGCGGGAGGCCGTGCGGCACCTGTGGAATCC
TCTCAAGAGGAACAGTCATTGTGTGAAGGTTCAAATTCAGCTGTTAGC**ATG**GAACTTTCAGAACCTATTGTAGAA
AATGGAGAGACAGAAATGTCTCCAGAAGAATCATGGGAGCACAAAGAAGAAATAAGTGAAGCAGAGCCAGGGGGT
GGTTCCTTGGGAGATGGAAGGCCGCCAGAGGAAAGTGCCCATGAAATGATGGAGGAGGAAGAGGAAATCCAAAA
CCTAAGTCTGTGGTTGCACCGCCAGGTGCTCCTAAGAAAAGAGCATGTAAATGTAGTATTATTGGGCACGTAGAT
GCTGGCAAGTCAACCATTGGAGGACAAATAATGTATTTGACTGGAATGGTTGACAAAAGGACGCTTGAAAAGTAT
GAAAGAGAAGCTAAAGAGAAAAACAGAGAAACTTGGTACTTGTCTTGGGCCTTAGACACAAATCAGGAAGAACGA
GACAAGGGTAAAAACAGTAGAAGTGGGTGCTGCCTATTTTTGAAACCAGAAAAGAAGCATTTCACAATTCTAGATGCC
CCTGGCCACAAGAGTTTTGTCCCAAATATGATTGGTGGTGCCTCTCAAGCTGATTGGCTGTGCTGGTAATCTCA
GCCAGGAAAGGAGAGTTTTGAAACTGGATTTGAAAAAGGAGGACAGACAAGAGAACATGCAATGTTGGCAAAGACA
GCAGGTGTAAAACACCTAATTGTGCTAATTAATAAGATGGATGATCCAACAGTAAATTGGAGCAATGAGAGATAT
GAAGAAATGTAAGGAGAAACTAGTGCCATTTTTGAAAAAAGTTGGCTTCAATCCCAAAAAGGACATTCACTTTATG
CCCTGCTCAGGACTTACTGGAGCAAATCTCAAAGAGCAGTCGGATTTCTGTCTTGGTACATTGGATTACCGTTT
ATTCCATATCTGGATAATTTGCCGAACCTTCAATAGATCAGTTGATGGACCAATCAGGCTGCCAATTGTGGATAAG
TACAAGGATATGGGCACTGTGGTCTTGGGAAAGCTGGAATCAGGATCTATTTGTAAAGGCCAGCAGCTTGTGATG
ATGCCAAACAAGCACAAACGTGGAAGTTCTTGGAATACTTTCCGATGATGTAGAGACTGATACCGTAGCCCCAGGT
GAAAACCTCAAATCAGACTGAAAGGAATTGAAGAAAGAGGAGATTCTTCCAGGGTTTATACTTTGTGATCCTAAT
AATCTTTGTCAATTCTGGACGCACATTTGATGCCAGATAGTGATTATAGAGCACAAATCCATCATCTGCCAGGC
TATAATGCGGTGCTGCATATTCTACACTGTATTGAGGAGGTGGAATAACAGCCTTAATCTGCTTGGTAGACAAA
AAATCAGGAGAAAAAAGTAAGACCCGACCCCGTTTTTGTGAAACAAGATCAAGTATGCATTGCTCGCTTAAGGACA
GCAGGAACCATCTGCCTTGAGACCTTTAAAGACTTCCCTCAGATGGGTGTTTTACCTTAAGAGATGAGGGTAAG
ACCATTGCAATTGAAAAAGTTCTGAAACTGGTTCCAGAGAAAAGAC**TAA**GCATTTTCTTGATGACCGTGCACAATA
CTGTGAGGAAAAATTGACTGCAGAAGCCTACTTCACACCGCCTTCTCTTATTTTCTGCCATTGATAAACCTCTCC
CCATATTTTGCAAAGAGGAAATTCACAGCAAAAGTCCACATTATGTCAGCTTCTCATATTGAGAGCTCTGCTAT
GCCACTGTTGAATTTTTCCCAAGATTCTGTCCCTAGCCCTCACTTCAAACCTGCTTCCCTGGACAGATTGCGC
AATAGCTTTGTAAGTGATGTGGACATAATTGCCTACAATAATGAAAACCTACAGGAATTTTTTTATTTTTCATTT
TCCCTTAGGCATATTTAGTATTTTTCCCCCAGGCCAGATCATTCGTGAGTGTGCGAGTGTGTGTGCACATGTTA
CAAAGGCAACTACCATGTTAATAAAATATTCAATTTG

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FIGURE 1943

MELSEPIVENGETEMSPPEESWEHKEEISEAEPGGGSLGDGRPPEESAHEMMEEEEEIPKPKSVVAPPGAPKKEHV
NVVFIGHVDAGKSTIGGQIMYLTGMVDKRTLEKYEREAKEKNRETWYLSWALDTNQEERDKGKTVEVGRAYFETE
KKHFTILDAPGHKSFVPMIGGASQADLAVLVISARKGEFETGFEEKGGQTREHAMLAKTAGVKHLIVLINKMDDP
TVNWSNERYEECKEKLVPFLKKVGFNPKKDIHFMPCSGLTGANLKEQSDFCPWYIGLPFIPYLDNLPNFNRSVDG
PIRLPIVDKYKDMGTVVVLGKLESGSICKGQQLVMPNKHNVLEVLGILSDDVETDTVAPGENLKIRLKGIEEEEIL
PGFILCDPNNLCHSGRTFDAQIVIIIEHKSIIICPGYNAVLHIHTCIEEVEITALICLVDKKSGEKSKTRPRFVKQD
QVCIARLRTAGTICLETFKDFPQMGRFTLRDEGKTIAIGKVLKLVPEKD

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FIGURE 1944

GTCGTGGCTCGTTCCATTCTCGGCGGTGGTACCTGCTCCCGGTGGCCCTGAGGACGTGTGGGCCAGGGGCGGCCC
CGAAATTAGGAAGCGGAGGGGGAGCAGTCTGCAGGTCTGCGGGGCTAAGTGTGCGGCGGCGCACCTCGCGTCAA
GAATCCGGAGGAGGAGACTGCAAGGATAGGCCAGGAGTA**ATCG**AGTCCAAAGAGGAAGTAGCGGCAAACAATCT
CAACGGGGAAAAATGCCCAACAAGAAAACGAAGGAGGGGAGCAGGCCCCACGCAGAATGAAGAAGAATCCCGCCA
TTTGGGAGGGGGTGAAGGCCAGAAGCCTGGAGGAAATATCAGGCGGGGGCGAGTTAGGCGACTTGTCCCTAATTT
TCGATGGGCCATACCTAATAGGCATATTGAGCACAATGAAGCGAGAGATGATGTAGAAAGGTTTGTAGGGCAGAT
GATGGAAATCAAGAGAAAGACTAGGGAACAGCAGATGAGGCACTATATGCGCTTCCAACTCCTGAACCTGACAA
CCATTATGACTTTTGCCTCATACTT**TGAAT**CCTAAAAGTTTTTCGCTGAGGTTAATGTGAACACTGCTTTACAAGC
TTGTATTTTTTGIGATTTACTTTTTCTGTAAGCCTTTTGGTGTTTACACTTACCAGTTTCTAATGGAAATTAGAAT
TCTAATTGAATATTGTTTTGTCTCAGCCTAAAAGTTACGGTCAGCATGGCAATTCACCTATTTTAGGAAAAATAC
TCTTTTCATAATATGAAATGCATAAAGCAGTTCAAAAAGCAGTCTGTATTCCATCATCTTCCTTTTTTCATTCCAG
TCCTTATTTTTGTAAGTATTACTTTTCCTCCTCCGGCTACCTGGACTCAAAATCTCAGTTGTCTTTGACAGTTTT
TTTCTTGTCCTTGACCAAAAAAGAATGATCATAACCAGAATTCAATGTTTGATATTTTAAGAATGTATGTTCTAG
TGTTTTTCAGAGTGAGTCTACCATCTGTATAAAAAACACCTTGGGGGCAGGCAGGGGCATTTAAAAATGTAGGACC
TATCGTCCAGACTCACAGAGTGGGGCTCCAGAATCTCCATTTTTTAACAACTCTCTTAAGTAATTCTGATGTGTA
CCAAAATCAGTGCCATTGGTGTGTGTGTACGTAACATATATACATATGTGTGTGTGTATATATATAATGTGTCA
TAACCGTAAACAATAAACAATATCAAGAT

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FIGURE 1945

MESKEELAANNLNGENAAQQENEGGEQAPTQNEEESRHLGGGEGQKPGGNIRRGVRRLVPNFRWAIPNRHIEHNE
ARDDVERFVGQMMETKRKTREQQMRHYMRFTPEPDNHYDFCLIP

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FIGURE 1946

CCTCGTGCCATGAGCATTTAGAAATGGAGACCACTTCTGGTGAATTGTCAGATGTTTCCAATGATCCCACCACAT
CTGTCTGTGTAGCTAGTGCCCCAACAAAAGAAGCAATTGACAATACCCTGCTTGAACACAAAGAAAGAAGTGAGA
ATATAAATCTTAATGAAAAGCAAATTCCTTTTCAGGTGCCTAATATTGAAAGGAACCTTTAGACAGTCACAGCCTA
AATCCTATCTTTGCCATTATGAACTGGCTGAGGCCCTTCCACAAGGAAAGATGAATGAGACACCAACTGAGTGGC
TGCGTTATAATTCAGGAATCCTTAACACACAACCCACCCATTACCATTCAAAGAAGCACATGTCAGTGGTCATAC
TTTTGTAACAGCTGAGCAAATCCTGGCTCCATTAGCTTTACCAGAGCAAGCATTATTGATCCCCTAGAAAACCA
TGACAAATTCAAAAATGTACCATGTGAGGTCTACCAGCACATTCTGCAGCCAAAC**ATG**CTGGCCAACAAGGTTAA
ATTTACCTTTTCTCCAGCTGCCCTCCCACCCCTAGCACACCTCTGCAGCCTTTGCCTTTGCAGCAGTCCTTATG
TTCTACCTCTGTAACCACTATCCATCACACTGTTTTGCAGCAGCACGCTGCAGCTGCTGCAGCTGCAGCTGCAGC
CGCAGCTGCAGGAACCTTTAAAGTGCTTCAGCCACACCAACAGTTTCTTTCCAAATCCCAGCTCTCACCAGAAC
CTCATTACCTCAGCTCTCAGTAGGACCAGTAGGACCGAGGCTTTGTCTGGGAACCAGCCAACCTTTTGTGTCTCC
TCCTCAGATGCCAATCATTCCAGCTTCCGTTCTTCATCCTAGCCATCTGGCTTTCCCATCTTTACCCCATGCACT
CTTTCCTTCACTGCTTTCCCCACACCCTACTGTCATCCCTTTGCAACCTCTCTTC**TAG**TCATCACCATAATGGGA
AAAAAATACTCTTGTGAAAATATTGCTATATGCGTTAAGTGTTTCATCTATGTGGGTACATGGCTATTTAACTGG
TGGAAATAAACTGGCCGATACATGGCGTCATTGGTTTGAAATCATTACTGTAAGTGCAATGATGCAAATAAATC
CCTAAGTTTCTGATATATAATATTATTAAAGCACTGAATAGTTTGAAAATCAATACAATATATGCTATATATTAA
AATGATGTCTTAAGAGTATGTATAATGTACATAAAATATATTTATAGTACTCTAATTTATGTTGTAAAGTATGCT
CCCTTGGTTTTTCTTAATCTTTGTGTATTTGCACCTATTTAATGTTTAGACAAAGCTGATGGCACTATGTTTTGT
ATCATGTTCTTGAACTGTAAATTCAGTGAAAAATATCTCTTGCAATAAATTTTTGTAACTATTT

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FIGURE 1947

MLANKVKFTFPPAALPPPSTPLQPLPLQQSLCSTSVTTIHHTVLQQHAAAAAAAAAAAAAGTFKVLQPHQQFLSQ
IPALTRTSLPQLSVGPVGPRLCPGNQPTFVAPPQMPIIPASVLHPSHLAFPSLPHALFPSLLSPHPTVIPLQPLF

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FIGURE 1948A

CGCCCCGGCGCGGGGCCCTGCGGTAGCCTCAGGCCCCCTCCCCCTGGACCCGCCGCAGAGCCAGTGCAGAATACAGA
AACTGCAGCCATGACCACGCACGTCACCCTGGAAGATGCCCTGTCCAACGTGGACCTGCTTGAAGAGCTTCCCCCT
CCCCGACCAGCAGCCATGCATCGAGCCTCCACCTTCCCTCCATCATGTACCAGGCTAACTTTGACACAAACTTTGA
GGACAGGAATGCATTTGTACGGGCATTGCAAGGTACATTGAGCAGGCTACAGTCCACTCCAGCATGAATGAGAT
GCTGGAGGAAGGACATGAGTATGCGGTATGCTGTACACCTGGCGCAGCTGTTCCCGGGCCATTCCCCAGGTGAA
ATGCAACGAGCAGCCCAACCGAGTAGAGATCTATGAGAAGACAGTAGAGGTGCTGGAGCCGGAGGTACCAAGCT
CATGAAGTTCATGTATTTTCAGCGCAAGGCCATCGAGCGGTTCTGCAGCGAGGTGAAGCGGCTGTGCCATGCCGA
GCGCAGGAAGGACTTTGTCTCTGAGGCCTACCTCCTGACCCTTGGCAAGTTCATCAACATGTTTGTCTGCTGGA
TGAGCTAAAGAACATGAAGTGCAGCGTCAAGAATGACCACTCTGCCTACAAGAGGGGCAGCACAGTTCCTGCGGAA
GATGGCAGATCCCCAGTCTATCCAGGAGTCGCAGAACCTTTCCATGTTCTGGCCAACCACAACAGGATCACCCA
GTGTCTCCACCAGCAACTTGAAGTGATCCAGGCTATGAGGAGCTGCTGGCTGACATTGTCAACATCTGTGTGGA
TTACTACGAGAACAAGATGTACCTGACTCCCAGTGAGAAACATATGCTCCTCAAGGTGATGGGCTTTGGCCTCTA
CCTAATGGATGGAAATGTCAGTAACATTTACAACTGGATGCCAAGAAGAGAATTAATCTTAGCAAAATTGATAA
ATTCTTTAAGCAGCTGCAGGTGGTGCCCTTTTCGGCGACATGCAGATAGAGCTGGCCAGATACATTGAGACCAG
TGCTCACTATGAAGAGAACAAGTCCAAGTGGACGTGCACCCAGAGCAGCATCAGCCCCAGTACAATATCTGCGA
GCAGATGGTTTCAATCCGGGATGACCACATCCGCTTCATCTCCGAGCTCGCTCGCTACAGCAACAGTGAGGTGGT
GACGGGCTCAGGGCTGGACAGCCAGAAGTCAGACGAGGAGTATCGCGAGCTCTTCGACCTAGCCCTGCGGGGTCT
GCAGCTTCTATCCAAGTGGAGCGCCACGTCATGGAGGTGTACTCTTGGAGCTGGTTTATCCCACAGACAAGTT
CTGCAACAAGGACTGTCTGGCACCGCGGAGGAATATGAGAGAGCCACACGCTACAATTACACCAGTGAGGAAAA
ATTTGCCCTTCGTTGAGGTGATCGCCATGATCAAAGGCCTGCAGGTGCTCATGGGCAGGATGGAGAGCGTCTTCAA
CCAGGCCATCAGGAACACCATCTACGCGGCAATTGCAGGACTTCGCCCAGGTGACGCTGCGTGAGCCCCCTGCGGCA
GGCGGTACGGAAGAAGAAGAATGTCCTCATCAGCGTCTTACAGGCAATTGAAAGACCATCTGTGACTGGGAGGG
AGGGCGAGAGCCCCCTAATGACCCATGCTTGAGAGGGGAGAAGGACCCCAAAGGTGGATTTGATATCAAGGTGCC
CCGGCGTGCTGTGGGGCCATCCAGCACACAGCTGTACATGGTGCGGACCATGCTTGAATCACTCATTGCAGACAA
AAGCGGCTCCAAGAAGACCCCTGAGGAGCAGCCTGGATGGACCCATTGTCTCGCCATAGAGGACTTTCACAAACA
GTCCTTCTTCTTACACATCTGCTCAACATCAGTGAAGCCCTGCAGCAGTGTGTGACCTCTCCAGCTCTGGTT
CCGAGAATTCTTCTGGAGTTAACCATGGGCGGACGAATCCAGTTCCCCATCGAGATGTCCATGCCCTGGATTCT
AACGGACCATATCTTGGAAACCAAGAACCTTCCATGATGGAGTATGTCCTCTACCTCTGGATCTGTACAACGA
CAGCGCCTACTATGCTCTGACCAAGTTTAAAAAGCAGTTCCTGTACGATGAGATAGAAGCTGAGGTGAACCTGTG
TTTTGATCAGTTTGTCTACAAGCTGGCAGACCAGATCTTTGCTTACTACAAAGCCATGGCTGGCAGTGTCTGT
GGATAAACGTTTTTCGAGCTGAGTGTAAGAATTATGGCGTCATCATTCGCTATCCACCGTCCAATCGCTATGAAC
ACTGCTGAAGCAGAGACACGTCCAGCTGTTGGGTAGATCAATTGACTTGAACAGACTCATTACCCAGCGCATCTC
TGCCGCCATGTATAAATCCTTGGACCAAGCTATCAGCCGCTTTGAGAGTGAGGACCTGACCTCCATTGTGGAGCT
GGAGTGGCTGCTGGAGATTAACCGGCTCACGCATCGGCTGCTCTGTAAGCATATGACGCTGGACAGCTTCGATGC
CATGTTCCGAGAGGCCAATCACAATGTGTCCGCCCCCTATGGCCGTATCACCTGCATGTCTTCTGGGAACCTGAA
CTTTGACTTTCTCCCCAACTACTGCTACAATGGGTCCACTAACCGTTTTGTGCGGACTGCCATTCTTTTACCCA
AGAACCACAACGAGACAAACCTGCCAACGTCCAGCCTTATTACCTCTATGGATCCAAGCCTCTCAACATTGCCTA
CAGCCACATCTACAGCTCCTACAGGAATTTTCGTGGGGCCACCTCATTTCAGACTATCTGCAGACTCCTGGGTTA
TCAGGGCATCGCTGTGGTTCATGGAGGAAGTCTAAAGATTGTGAAGAGCTTGCTCCAAGGAACCATCTCCAGTA
TGTGAAAACACTGATAGAGGTGATGCCCAAGATATGCCGCTTGCCCCGACATGAGTATGGCTCCCCAGGGATCCT
GGAGTTCTTCCACCACCAGCTGAAGGACATCATTGAGTACGCAGAGCTCAAAACAGACGTGTTCCAGAGCCTGAG
GGAAGTGGGCAATGCCATCCTCTTCTGCCTCCTCATAGAGCAAGCTCTGTCTCAGGAGGAGGTCTGCGATTTGCT
CCATGCCGCACCTTCCAAAACATCTTGCCTAGAGTCTACATCAAAGAGGGGGAGCGCCTGGAGGTCCGGATGAA
ACGTCTGGAAGCCAAGTATGCCCCGCTCCACCTGGTCCCTCTGATCGAGCGGCTGGGGACCCCTCAGCAAATCGC
CATTGCTCGCGAGGGTGACCTCCTGACCAAGGAGCGGCTGTGCTGTGGCCTGTCCATGTTGAGGTTCATCCTGAC
CCGATTCGGAGCTACCTGCAGGACCCCATCTGGCGGGGCCACCGCCACCAATGGCGTCATGCACGTCGATGA
GTGTGTGGAGTTCCACCGGCTGTGGAGCGCCATGCAGTTCGTGTACTGCATCCCTGTGGGAACCAACGAGTTTAC
AGCTGAGCAGTGTTTCGGCGATGGCTTGAAGTGGGTGGTTGCTCCATCATTGTCTGCTGGGCCAGCAGCGTCG

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FIGURE 1948B

CTTTGACCTGTTGACTTCTGTTACCACCTGCTAAAAGTGCAGAGGCAGGACGGGAAGGATGAAATCATTAAAGAA
TGTGCCCCTGAAGAAGATGGCCGACCGGATCAGGAAGTATCAGATCTTGAACAATGAGGTTTTTGCCATCCTGAA
CAAATACATGAAGTCCGTGGAGACAGACAGTTCCACTGTGGAGCATGTGCGCTGCTTCCAGCCACCCATCCACCA
GTCCTTGGCCACCACTTGCTTAAGCAGAAGATCCTGCAGACCCTTATCTGGAGGAGGAAGAGAAGCAGGAGAGAGA
AAGCCACAGCCAGCCTGCCATAGGATCCAACCTGGACAACGTGTGGGATGGACCTGGAAACAAGCACCTCCCCAAA
CACATCACCCTCCCTAGGGCGGGGCCTGTGCATGCTCTCCCATGACATCTCCATGCTGGTTTCTCCATAGCATA
AATG

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FIGURE 1949

APARGPAVASGSPSPGPAAEPVQNTETAAMTTHVTLEDALSNVDLLEELPLPDQQPCIEPPSSIMYQANFDTNFE
DRNAFVTGIARYIEQATVHSSMNEMLEEGHEYAVMLYTWRSRCSRAIPQVKCNEQPNRVEIYEKTVEVLEPEVTKL
MKFMYFQRKAIERFCSEVKRLCHAERRKDFVSEAYLLTLGKFINMFAVLDELKNMKCSVKNDHSAYKRAAQFLRK
MADPQSIQESQNLSMFLANHNRTQCLHQQLLEVIPGYEELLADIVNICVDYYENKMYLTPSEKHMLLKVMGFGLY
LMDGNVSNIIYKLDKAKKRINLSKIDKFFKQLQVVPLFGDMQIELARYIETSAHYEENKSKWTCTQSSISPQYNICE
QMVQIRDDHIRFISELARYSNSEVVTGSGLDSQKSDEEYRELFDLALRGLQLLSKWSAHVMEVYSWKLVHPTDKF
CNKDCPGTAEERYERATRYNYTSEEKFAFVEVIAMIKGLQVLMGRMESVFNQAIRNTIYAALQDFAQVTLREPLRQ
AVRKKKNVLISVLQAIRKTICDWEGGREPPNDPCLRGEKDPKGGFDIKVPRRAVGPSSTQLYMVRTMLES LIADK
SGSKKTLRSSLDGPIVLAIEDFHKQSFFFFTHLLNISEALQQCCDLSQLWFRFFLELTMGRRIOQFPIEMSMPWIL
TDHILETKEPSMMEYVLYPLDLYNDSAYYALTKFKKQFLYDEIEAEVNLCFDQFVYKLADQIFAYYKAMAGSVLL
DKRFRAECKNYGVIIPYPPSNRYETLLKQRHVQLLGRSIDLNRLITQRISAAMYKSLDQAISRFESDLTSIVEL
EWLLEINRLTHRLLCXHMTLDSFDAMFREANHNVSAPYGRITLHVFWELNFDLFPNYCYNGSTNRVVRTAIPFTQ
EPQORDKPANVQPYLYGSKPLNIAYSHIYSSYRNFGVPPHFKTICRLLGYQGIAVVMEELLKIVKSLLQGTLILQY
VKTLIEVMPKICRLPRHEYGSPGILEFFHHQLKDIIEYAEKTDVDFQSLREVGNAILFCLLIEQALSQEEVCDLL
HAAPFQNILPRVYIKEGERLEVVRMKRLEAKYAPLHLVPLIERLGTPQQIAIAREGDLLTKERLCCGLSMFEVILT
RIRSYLQDPIWRGPPPTNGVMHVDECVEFHRLWSAMQFVYCIPVGTNEFTAEQCFGDGLNWWGCSIIVLLGQQRR
FDLFDFCYHLLKVQRQDGKDEIIKNVPLKKMADRIRKYQILNNEVFALNKYMKSVETDSSTVEHVRCFQPPIHQ
SLATTC

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FIGURE 1950

AAGAACCAAATGTTATAAATATTTGCTGAAGTTTATACATTTTAAATCTGCATTAAGGTAATGGTTAGTTGGTCAA
TGCTGCCTCTGCCTCAGTCTGCAGCGAGAACATTGTGTTTTTCATTTGGTAAATACAGTTGAGCATCCACCGGNGT
NNCAAGTGGCTGGTATTAGGTGCTAAGGATGCAGGGGTGAACAAAACAGGCCCTGCCTCC**ATG**CAATTCTCATT
CTCTGGGTGGCACAGTTTTATGCAAGTTATCACATGTGAAAGAATTTATAGTTTTTATTATGCAAGTTTTCAAAT
AAATCCAATTGCTGTTATCTTTTGTTTTTCATGGAATATCTCGCATCTCAGAACACAGTTTGGGAATCATATTTT
ATTTAGTGTTCAGATGCTATCTATTATATCTAAGATATTTACATTTAGCCATTCGTTTTATAAAAAACTCCA
GGCAAACCTCAGCTGGACTTTTCTTGCTTTAATAACAGCTTTATTGAGGATACAATTCACATATCTACGAAATTCT
TTTTAAAAATTTTACAGTTTCAGGCCGGGCGCGGTGGCTCATGCC

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FIGURE 1951

MQFSFSGWHSFMQVITCERIYSFYYSFQINPIAVIFCFSWNISHLRTQFGNHILFSVFERCYLLYLRYFTFSHSF
YKKLQANSAGLFLLNNSFIEDTIHISTKFFLKILHVQAGRGGSC

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FIGURE 1952

AAAGCATCCAGTTCCTTTGCGGTCTCTTCTTCAGCACATGCCAAAGCTGTTCTCACGGCCTGTGAGACAAGAG
CATCTTGGATGTAGGACA**ATGGA**AGAGTTAGATGCCTTATTGGAGGAACTGGAACGCTCCACCCCTTCAGGACAGT
GATGAATATTCCAACCCAGCTCCTCTTCCCCCTGGATCAGCATTCCAGAAAGGAGACTAACCTTGATGAGACTTCG
GAGATCCCTTTCTATTTCAGGATAACACAAGTCCCTTGCCGGCGCAGCTCGTGTATACTACCAATATCCAGGAGCTC
AATGTCTACAGTGAAGCCCCAAGAGCCAAAGGAATCACCACCACCTTCTAAAACGTCAGCAGCTGCTCAGTTGGAT
GAGCTCATGGCTCACCTGACTGAGATGCAGGCCAAGGTTGCAGTGAGAGCAGATGCTGGCAAGAAGCACTTACCA
GACAAGCAGGATCACAAGGCCTCCCTGGACTCAATGCTTGGGGGTCTGGAGCAGGAATTGCAGGACCTTGGCATT
GCCACAGTGCCCAAGGGCCATTGTGCATCCTGCCAGAAACCGATTGCTGGGAAGGTGATCCATGCTCTAGGGCAA
TCATGGCATCCTGAGCATTCTTGTCTGTACTCATTGCAAAGAAGAGATTGGCTCCAGTCCCTTCTTTGAGCGGAGT
GGCTTGGCCTACTGCCCCAACGACTACCACCAACTTTTTCTCCACGCTGTGCTTACTGCGCTGCTCCCATCCTG
GATAAAGTGCTGACAGCAATGAACCAGACCTGGCACCCAGAGCACTTCTTCTGCTCTCACTGCGGAGAGGTGTTT
GGTGCAGAAGGCTTTTCATGAGAAGGACAAGAAGCCATATTGCCGAAAGGATTTCTTAGCCATGTTCTCACCCAAG
TGTGGTGGCTGCAATCGCCAGTGTTGGAAAACCTACCTTTCAGCCATGGACACTGTCTGGCACCCAGAGTGCTTT
GTTTGTGGGGACTGCTTCACCAGTTTTTCTACTGGCTCCTTCTTTGAACTGGATGGACGTCCATTCTGTGAGCTC
CATTACCATCACCGCCGGGGAACGCTCTGCCATGGGTGTGGGCAGCCCATCACTGGCCGTTGTATCAGTGCCATG
GGGTACAAGTTCATCCTGAGCACTTTGTGTGTGCTTTCTGCCTGACACAGTTGTGCAAGGGCATTTCAGGGAG
CAGAATGACAAGACCTATTGTCAACCTTGCTTCAATAAGCTCTTCCCACTG**TAAT**GCCAACTGATCCATAGCCTC
TTCAGATTCCTTATAAAATTTAAACCAAGAGAGGAGAGGAAAGGGTAAATTTTCTGTTACTGACCTTCTGCTTAA
TAGTCTTATAGAAAAAGGAAAGGTGATGAGCAAATAAAGGAACTTCTAGACTTTACATGACTAGGCTGATAATCT
TATTTTTTAGGCTTCTATACAGTTAATTCTATAAATCTCTTTCTCCCTCTCTTCTCCAATCAAGCACTTGGAGT
TAGATCTAGGTCCTTCTATCTCGTCCCTCTACAGATGTATTTTCCACTTGCATAATTCATGCCAACACTGGTTTT
CTTAGGTTTCTCCATTTTACCTCTAGTGATGGCCCTACTCATATCTTCTCTAATTTGGTCCTGATACTTGTTC
TTTTCACGTTTTCCATTTGCCCTGTGGCTCACTGTCTTACAATCACTGCTGTGGAATCATGATAACACTTTTAG
CTCTTTGCATCTTCCTTCAGTGTATTTTTGTTTTTCAAGAGGAAGTAGATTTTAACTGGACAACCTTGAGTACTG
ACATCATTGATAAATAAACTGGCTTGTGGTTTCAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1953

MEELDALLEELERSTLQDSDEYSNPAPLPLDQHSRKETNLDETSEILSIQDNTSPLPAQLVYTTNIQELNVYSEA
QEPKESPPPSKTSAAAQLDELM AHLTEMQAKVAVRADAGKKHLPDKQD HKASLDSMLGGLEQELQDLGIATVPKG
HCASCQKPIAGKVIHALGQSWHPEHFVCTHCKEEIGSSPFFERSGLAYCPNDYHQLFSPRCAYCAAPILDKVLTA
MNQTWHPEHFFCSHCGEVFGAEGFHEKDKKPYCRKDFLAMFSPKCGGCNRPVLENYLSAMDTVWHPECFVCGDCF
TSFSTGSFFELDGRPFCE LH YHRRGT LCHGCGQPI TGRCISAMGYKFHPEHFVCAFLTQLSKGIFREQNDKTY
CQPCFNKLFPL

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FIGURE 1954

GGCACGAGGGTCTACCCGCCCCTGCCCTGAGGACCCTAGTCCAACATGGCGGCGCCAGCGGAGGGTGGAACGGC
GTCGGCGCGAGCTTGTGGGCCGCGCTGCTCCTAGGGGCCGTGGCGCTGAGGCCGGCGGAGGCGGTGTCCGAGCCC
ACGACGGTGGCGTTTGACGTGCGGCCCGGCGGCGTCTGTCATTCTTCTCCATAACGTGGGCCCCGGGGACAAA
TATACGTGTATGTTCACTTACGCCTCTCAAGGAGGGACCAATGAGCAATGGCAGATGAGTCTGGGGACCAGCGAA
GACCACCAGCACTTCACCTGCACCATCTGGAGGCCCCAGGGGAAGTCCTATCTGTACTTCACACAGTTCAAGGCA
GAGGTGCGGGGCGCTGAGATTGAGTACGCCATGGCCTACTCTAAAGCCGCATTTGAAAGGGAAAAGTGATGTCCCT
CTGAAAAC TGAGGAATTTGAAGTGACCAAAACAGCAGTGGCTCACAGGCCCGGGGCATTCAAAGCTGAGCTGTCC
AAGCTGGTGATTGTGGCCAAGGCATCGCGCACTGAGCTGTTGACCAGCAGCCCTGTTGCGGGTGGCACCTTCTCAT
CTCCGGTGAAGCTGAAGGGGCCTGTGTCCCTGAAAGGGCCAGCACATCACTGGTTTTCTAGGAGGGACTCTTAAG
TTTTCTACCTGGGCTGACGTTGCCTTGTCCGGAGGGGCTTGCAGGGTGGCTGAAGCCCTGGGGCAGAGAACAGAG
GGTCCAGGGCCCTCCTGGCTCCCAACAGCTTCTCAGTTCCTCCTGCTGAGCTCTTCTGGACTCAGGATCGC
AGATCCGGGGCACAAAGAGGGTGGGGAACATGGGGGCTATGCTGGGGAAAGCAGCCATGCTCCCCCGACCTCCA
GCCGAGCATCCTTCATGAGCCTGCAGAACTGCTTTCCTATGTTTACCCAGGGGACCTCCTTTCAGATGAACTGGG
AAGAGATGAAATGTTTTTTCATATTTAAATAAATAAGAACATTAAAAAGCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1955

MAAPSGGWNGVGASLWAALLLGAVALRPAEAVSEPTTVAFDVRPGGVVHSF SHNVGPGDKYTCMFTYASQGGTNE
QWQMSLGTSEDHQHFTCTIWRPQGKSYLYFTQFKAEV RGAEIEYAMAYSKAAFERESDVPLKTEEF EVTKTAVAH
RPGAFKAELSKLVIVAKASRTEL

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FIGURE 1956

CTAACCCAGAAACATCCAATTCTCAAACCTGAAGCTCGCACTCTCGCCTCCAGCATGAAGTCTCTGCCGCCCTTC
TGTGCCTGCTGCTCATAGCAGCCACCTTCATTCCCCAAGGGCTCGCTCAGCCAGATGCAATCAATGCCCCAGTCA
CCTGCTGTTATAAATTACCAATAGGAAGATCTCAGTGCAGAGGCTCGCGAGCTATAGAAGAATCACCAGCAGCA
AGTGTCCCAAAGAAGCTGTGATCTTCAAGACCATTTGTGGCCAAGGAGATCTGTGCTGACCCCAAGCAGAAAGTGGG
TTCAGGATTCCATGGACCACCTGGACAAGCAAACCCAAACTCCGAAGACTTGAAACTCACTCCACAACCCAAGA
ATCTGCAGCTAACTTATTTTCCCCTAGCTTTCCCCAGACACCCTGTTTTATTTTATTATAATGAATTTTGTGTGT
TGATGTGAAACATTATGCCTTAAGTAATGTTAATTCTTATTTAAGTTATTGATGTTTTAAGTTTATCTTTCATGG
TACTAGTGTTTTTTAGATACAGAGACTTGGGGAAATTGCTTTTCTCTTGAACCACAGTTCTACCCCTGGGATGT
TTTGAGGGTCTTTGCAAGAATCATTAAATACAAAGAATTTTTTTTAAACATTCCAATGCATTGCTAAAATATTATTG
TGGAAATGAATATTTTGTAACATTACACCAAATAAATATATTTTGTACAAAAAAAAAAAAA

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FIGURE 1957

MKVS AALLCLLLIAATFIPQGLAQPDAINAPVTCCYNFTNRKISVQRLASYRRITSSKCPKEAVIFKTIVAKEIC
ADPKQKWVQDSMDHLDKQTQTPKT

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FIGURE 1958

CCCCAGCCACCCTGAACCAGTTACCTCTGTACTTTTACGCTCGGGATGCAAGCTGTCTTGTACTAACTAAGAAGT
TAAGCCTAATCTTTTTGTACTGTTGACACGTATGCTTATTTATCACAATCAGGAAATGCTTTCTCATTTTAGCTC
AAGGATCTAAATTTACTTGATCGCTGTATAAAAGAAACATTAAGACTTAGACCTCCTATAATGATCATGATGAGA
ATGGCCAGAACTCCTCAGGTGAGTATCTTGGCTACATCTTCCCCTCTATACCCCCAGTTATTTATCAAAAAGAAG
AAATA

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FIGURE 1959

MIMMRMARTPQVSILATSSPLYPQLFIKKK

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FIGURE 1960

AGCGACCGCAGCCGGGGGACGCGGGAGGATGGGAGCAAGTGGAGATCCTGAGGAAATTCATCCAGAGGGTCCAGG
CCATGAAGAGTCCTGACCACAATGGGGAGGACAACCTCGCCCCGGGACTTCATGCGGTTAAGAAGATTGTCTACCA
AATATAGAACAGAAAAGATATATCCACAGCCACTGGAGAAAAAGAAGAAATGTTAAAAAGAACAGATACAAGG
ACATACTGCCATTTGATCACAGCCGAGTTAAATTGACATTAAAGACTCCTTCACAAGATTCAGACTATATCAATG
CAATTTTATAAAGGGCGTCTATGGGCCAAAAGCATATGTAGCAACTCAAGGACCTTTAGCAAAATACAGTAATAG
ATTTTTGGAGGATGATATGGGAGTATAATGTTGTGATCATTGTAATGGCCTGCCGAGAATTTGAGATGGGAAGGA
AAAAATGTGAGCGCTATTGGCCTTTGTATGGAGAAGACCCCATACGTTTGCACCATTTAAAATTTCTTGTGAGG
ATGAACAAGCAAGAACAGACTACTTCATCAGGACACTCTTACTTGAATTTCAAATGAATCTCGTAGGCTGTATC
AGTTTCATTATGTGAAGTGGCCAGACCATGATGTTCCCTTCATCATTGATTCTATTCTGGACATGATAAGCTTAA
TGAGGAAATATCAAGAACATGAAGATGTTCCATTTGTATTTCATTGCAGTGCAGGCTGTGGAAGAACAGGTGCCA
TTTGTGCCATAGATTATACGTGGAATTTACTAAAAGCTGGGAAAATACCAGAGGAATTTAATGTATTTAATTTAA
TACAAGAAATGAGAACACAAAGGCATTCTGCAGTACAAAACAAAGGAGCAATATGAACCTGTTCATAGAGCTATTG
CCCAACTGTTTGA AAAACAGCTACA ACTATATGAAATTCATGGAGCTCAGAAAATTGCTGATGGAGTGAATGAAA
TTAACTACTGAAAACATGATCAGCTCCATAGAGCCTGAAAAACAAGATTCTCCTCCTCCAAAACCACCAAGGACCC
GCAGTTGCCCTTGTGAAGGGGATGCTAAAGAAGAAATACTGCAGCCACCGGAACCTCATCCAGTGCCACCCATCT
TGACACCTTCTCCCCCTTCAGCTTTTCCAACAGTCACTACTGTGTGGCAGGACAATGATAGATACCATCCAAAGC
CAGTGTGTCATATGGTTTCATCAGAACAACATTCAGCAGACCTCAACAGAACTATAGTAAATCAACAGAACTTC
CAGGGAAAAATGAATCAACAATTGAACAGATAGATAAAAAATTGGAACGAAATTTAAGTTTTGAGATTAAAGAAGG
TCCCTCTCCAAGAGGGACCAAAAAGTTTTGATGGGAACACACTTTTGAATAGGGGACATGCAATTTAAATTTAAAT
CTGCTTCACCTTGTATAGCTGATAAAATCTCTAAGCCACAGGAATTAAGTTTCAGATCTAAATGTCGGTGATACTT
CCCAGAATTTCTTGTGTGGACTGCAGTGTAACACAATCAAACAAAGTTTTAGTTACTCCACCAGAAGAATCCCAGA
ATTTCAGACACACCTCCAAGGCCAGACCGCTTGCCTCTTGATGAGAAAGGACATGTAACGTGGTCATTTTCATGGAC
CTGAAAATGCCATACCCATACCTGATTTATCTGAAGGCAATTCCTCAGATATCAACTATCAAACCTAGGAAAACCTG
TGAGTTTAACACCAAGTCCTACAACACAAGTTGAAACACCTGATCTTGTGGATCATGATAACACTTCACCACTCT
TCAGAACACCCCTCAGTTTTACTAATCCACTTCACTCTGATGACTCAGACTCAGATGAAAGAACTCTGATGGTG
CTGTGACCCAGAATAAACTAATATTTCAACAGCAAGTGCCACAGTTTCTGCTGCCACTAGTACTGAAAGCATT
CTACTAGGAAAGTATTGCCAATGTCCATTGCTAGACATAATATAGCAGGAACAACACATTTCAGGTGCTGAAAAAG
ATGTTGATGTTAGTGAAGATTCACCTCCTCCCCTACCTGAAAGAACCTCTGAATCGTTTGTGTTAGCAAGTGAAC
ATAATACACCTGTAAAGATCGGAATGGAGTGAACCTCAAAGTCAGGAACGATCTGAACAAAAAAGTCTGAAGGCT
TGATAACCTCTGAAAATGAGAAATGTGATCATCCAGCGGGAGGTATTCACTATGAAATGTGCATAGAATGTCCAC
CTACTTTCAGTGACAAGAGAGAACAATATCAGAAAATCCAACAGAAGCCACAGATATTGGTTTTGGTAATCGAT
GTGGA AAAACCCAAAGGACCAAGAGATCCACCTTCAGAATGGACATGATTTCAGGGAGCTAGAAGACACTTTAAGTT
ATACTGGAAAATTCAGGTGCCACTGAAAGCCAGATTTATAGTATTCCATCTTTAATATGTGGGACTAACAGCAGT
GTAGATTGTTACCTTAATATTTTTTGCTGGGACCATCTACCTGCCTTATACTACACTTAGGAAAAAGTATTACAT
ATGGTTTATTTTGAACCTTCAAGTATTATTGCCTTAATGTCTCTTAACCCTGTTACACGCTGCTTGTAGACATGT
TAATATAGTAATACCTTTATGATATATTGAGTTTAAAGGACTACTCTTTTTCTGTTTTATCATGTATGCATTATTT
TGTATATGTACAGGGCAAGTAGGTATATAATTTGATAAAGTTGCAATTGAAATATTATTAACAGAAGATGTAAGA
AATTTCTGCATGGTCTAAATCTTTGTGTACTTTATTTGTAAATTTATTTGCCCTGGAGTTTTAGAAAATAGTTTCT
GAATTTTAAACTTGCTGGATTTCATGCAGCCAGCTTTGCAGGTTATCAGAGATCAAAGATTGTAATAATAATTTTG
TAAATTGTAAGCAAAAAGTTATTTTTATATTATATACAGTCTAATTGTTTCATCCTAATTGTTTCCTGTTTTTCATCT
AGTCAGAGATTTCAGTAAGTGCCTTGGAAACAATATTGAATTCCTTAGCTTGTGTGTGTTTCTTTAATATTTGAAC
TCAAGTGGGATTAGAAGACTATCAAATACATGTATGTTTCAGGATATTTGACCTGTCATTAAAAAAAACAAACA
GTTTTACAGTG

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FIGURE 1961

MEQVEILRKFIQRVQAMKSPDHNGEDNFARDFMRLRRLSTKYRTEKIYPTATGEKEENVKKNRYKDILPFDHSRV
KLTLKTPSQSDSYINANFIKGVYGPAYVATQGPLANTVIDFWRMIWEYNVVIIVMACREFEMGRKKCERYWPLY
GEDPITFAPFKISCEDEQARTDYFIRTLLEFQNESRRLYQFHYVNWPDHDPSSFDSSILDMISLMRKYQEHEDV
PICIHCSAGCGRTGAICAIDYTWNLLKAGKIPEEFNVFNLIQEMRTQRHSAVQTKEQYELVHRAIAQLFEKQLQL
YEIHGAQKIADGVNEINTENMISSIEPEKQDSPPPKPPRTRSCLEVGDAKEEILQPPEPHPVPPILTPSPPSAFP
TVTTVWQDNDRYHPKPVLMVSSEQHSADLNRNYSKSTELPGKNESTIEQIDKKLERNLSFEIKKVPLQEGPKSF
DGNTLLNRGHAIIKISASPCIAADKISKPELSSDLNVGDTSONSCVDCSVTQSNKVSVPPEESQNSDTPPRPDR
LPLDEKGHVTWSFHGPENAIPIPDLEGNSSDINYQTRKTVSLTPSPTTQVETPDLDVHDNTSPLFRTPLSFTNP
LHSDDSDSDERNSDGAVTQNKTNISTASATVSAATSTESISTRKVLPMIARHNIAGTTHSGAEKDVDVSEDSPP
PLPERTPESFVLASEHNTPVRESEWSELQSQERSEQKKSEGLITSENEKCDHPAGGIHYEMCIECPPTFSDKREQI
SENPTEATDIGFGNRCGKPKGPRDPPSEWT

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FIGURE 1962

CGACGAGCCATGGTTGCTGGGAGCGACGCGGGGCGGGCCCTGGGGGTCCTCAGCGTGGTCTGCCTGCTGCACTGC
TTTGTTTTTCATCAGCTGTTTTTCCCAACAAATATATGGTGTGTGTATGGGAATGTAACCTTCCATGTACCAAGC
AATGTGCCTTTTAAAAGAGGTCCTATGGAAAAACAAAAGGATAAAGTTGCAGAACTGGAAAATTCTGAATTCAGA
GCTTTCTCATCTTTTAAAAATAGGGTTTATTTAGACACTGTGTCAGGTAGCCTCACTATCTACAACCTAACATCA
TCAGATGAAGATGAGTATGAAATGGAATCGCCAAATATTACTGATACCATGAAGTTCTTTCTTTATGTGCTTGAG
TCTCTTCCATCTCCCACACTAACTTGTGCATTGACTAATGGAAGCATTGAAGTCCAATGCATGATACCAGAGCAT
TACAACAGCCATCGAGGACTTATAATGTACTCATGGGATTGTCCTATGGAGCAATGTAAACGTAACCTCAACCAGT
ATATATTTTAAAGATGGAAAATGATCTTCCACAAAAAATACAGTGTACTCTTAGCAATCCATTATTTAATACAACA
TCATCAATCATTTTGACAACCTGTATCCCAAGCAGCGGTCATTCAAGACACAGATATGCACTTATACCCATACCA
TTAGCAGTAATTACAACATGTATTGTGCTGTATATGAATGGTATTCTGAAATGTGACAGAAAACCAGACAGAACC
AACTCCAATTGATTGGTAAACAGAAGATGAAGACAACAGCATAACTAAATTATTTTAAAAACTAAAAAGCCATCTG
ATTTCTCATTTGAGTATTACAATTTTGAACAACCTGTTGGAAATGTAACCTGAAGCAGCTGCTTTAAGAAGAAAT
ACCCACTAACAAAGAACAAGCATTAGTTTTGGCTGTCATCAACTTATTATATGACTAGGTGCTTGCTTTTTTTGT
CAGTAAATTGTTTTTACTGATGATGTAGATACTTTTGTAATAAATGTAAATATGTACACAAGTG

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FIGURE 1963

MVAGSDAGRALGVLSVVCLLHCFGFISCFSQQIYGVVYGNVTFHVPSNVPLKEVLWKKQKDKVAELENSEFRAFS
SFKNRVYLDTVSGSLTIYNLTSSDEDEYEMESPNITDTMKFFLYVLESLPSPTLTALTNESIEVQCMIPHEHNS
HRGLIMYSWDCPMEQCKRNSTSIYFKMENDLPQKIQCTLSNPLFNTTSSIILTTICIPSSGHSRHRYPALPIPLAV
ITTCIVLYMNGILKCDRKPDRINSN

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FIGURE 1964A

GTTGCTGTCTGGAGAGAGAAAGCCGCACCCGAGAGGAGGTGTGGGTGTTCCGCTTCCATCCTAACGGAACGAGCTC
CCTCTTCGCGGACATGGGATTACCCAGCGGCTGCTAACCCCTCTCCTCGCCCTGCTCCCCAAACCGGCGTGGCT
CCCCGGGCACCAAGGAGCTGACTACAGAGGAGCAGGATTTGCACCCCTCGCTGGGCTTGCTTTGGCAACAGAGTG
CCTGACCCAGGTCAGGATTTTTCAAGAAAGACATGTCTGCACAAAATGTCTAGCTTCCCTACATATTGGAGACATTTG
TTCTCTGTACGCGGAGGGATCGACAAATGGATTTATTAGCACCTTGGGCCTGGTTGATGATCGTTGTGTTGTACA
GCCAGAAACCGGGGACCTTAACAATCCACCTAAGAAATTCAGAGACTGCCTCTTTAAGCTATGTCCCATGAACCG
CTACTCTGCCAAAAGCAGTTCTGGAAAGCCGCTAAGCCTGGGGCCAACAGCACCACAGACGCAGTGCTACTCAA
CAAAGTGCACCACGCTGCAGACTTGGAAAAGAAGCAGAATGAGACAGAAAACAGGAAATTGCTGGGGACCGTAAT
CCAGTATGGCAATGTGATCCAGCTCCTGCATTTGAAAAGTAATAAATACCTAACAGTGAATAAGAGGCTTCCTGC
TCTGTTGGAGAAGAATGCCATGAGAGTCACATTGGACGAGGCTGGAAATGAAGGGTCTGTTTTATATTACAGCC
ATTCTACAAGCTGCGATCCATTGGAGACAGCGTGGTTCATAGGTGACAAGGTGGTTCTGAACCCCGTCAATGCTGG
TCAGCCCTACATGCTAGCAGCCATCAACTGGTAGATAACCCAGGCTGCAATGAGGTCAATTCCGTCAACTGCAA
TACAAGCTGGAAAATAGTCCTTTTCATGAAATGGAGTGATAACAAAGACGACATATTAAAGGGGGGTGACGTGGT
GAGGCTGTTTTATGCTGAGCAGGAGAAGTTTTCTCACCTGTGACGAACACAGGAAGAAGCAGCACGTCTTCCTGAG
AACCACGGGCCGGCAGTCGGCCACATCTGCCACCAGTTCAAAAAGCCCTGTGGGAGGTGGAGGTGGTCCAGCATGA
CCCATGTCTGGGGCGGAGCAGGGTATTGGAACAGCCTTTTTCCGTTTCAAGCATCTGGCCACGGGGCATTACTTGGC
AGCAGAGGTGGACCCTGATCAGGACGCCTCTCGAAGTAGGTTGCGGAATGCCAAGAAAAGATGGTATACTCCCT
GGTCTCTGTGCCTGAAGGCAATGACATCTCCTCCATTTTCGAGCTAGATCCCACCCTCTGCGTGGAGGTGACAG
CCTTGTTCCCAAGGAACTCTTATGTTTCGGCTCAGACACCTATGTACTAATACCTGGGTTTACAGCACAAATATTCC
TATTGACAAGGAAGAAGAAAAGCCCGTGATGCTGAAAATTGGCACCTCTCCTGTGAAGGAGGATAAGGAAGCATT
TGCCATAGTTCCGTTTTCTCCTGCTGAAGTTCTGGGACCTGGACTTTGCCAATGATGCCAGCAAGGTGCTGGGCTC
CATTGCTGGGAAGCTAGAGAAGGGCACCATCACCCAGAATGAAAGGAGGTCTGTAACCAAGCTGCTAGAAGATTT
GGTTTACTTTCGTCCTGCTGGTGAACATAATTCTGGTCAAGATGTTCTCGAAGTTGTCTTCTCCAAGCCCAACAGAGA
ACGGCAGAAACTGATGAGAGAACAGAATATTCTCAAGCAGATCTTCAAGTTGTTACAAGCCCCATTACAGACTG
CGGTGATGGCCCAATGCTTCGGCTGGAAGAGCTCGGGGACCAGCGGCACGCTCCTTTCAGACACATCTGCCGGCT
CTGCTACAGGGTGCTGAGACACTCGCAGCAAGACTACAGGAAGAACCAGGAGTATATAGCCAAGCAGTTTGGCTT
CATGCAGAAGCAGATTGGCTATGATGTGTTGGCTGAAGACACTATCACTGCCCTGCTCCACAATAATCGGAACT
CCTGGAAAAACACATTACCGCGGCAGAGATTGACACATTTGTGAGCCTGGTGCAGAAAGAACAGGGAGCCCAGATT
CTTAGATTACCTCTCCGACCTCTGTGTCTCCATGAACAAATCAATTCCAGTGACCCAGGAACTGATATGTAAAGC
TGTGCTGAACCCACCAACGCTGACATCCTGATTGAGACCAAATTGGTTCTTTCTCGTTTTGAATTTGAAGGTGT
CTCTTCCACTGGAGAGAATGCTCTGGAGGCAGGAGAAGACGAGGAAGAGGTGTGGCTGTTTTGGAGGGACAGCAA
CAAAGAGATTTCGAGCAAGAGTGTGAGGGAATTGGCTCAGGATGCTAAAGAAGGGCAGAAGGAGGACCGAGACGT
TCTCAGCTACTACAGATATCAGCTGAACCTCTTTGCGAGGATGTGCTGGACCGCCAATACCTGGCCATCAACGA
AATCTCAGGCCAGCTGGATGTGATCTCATTCTCCGCTGCATGTCTGACGAGAACCTGCCCTATGACCTCAGGGC
GTCCTTCTGCCGCTCATGCTTACATGCATGTGGACCGAGATCCCCAGGAACAAGTACCCCCCGTGAAAATATGC
CCGCCTCTGGTCTGGAGATTCCCTCGGAGATCGCCATTGACGACTATGATAGTAGTGGAGCTTCCAAAGATGAAAAT
TAAGGAGAGATTTGCTCAGACCATGGAGTTTGTGGAGGAGTATTTAAGAGATGTGGTTTGTGAGAGGTTCCCTTT
CTCTGATAAAGAGAAGAATAAGCTTACGTTTTGAGGTTGTAAATTTAGCTAGGAATCTCATATACTTTGGTTTTCTA
CAACTTCTCTGACCTTCTCCGATTAACTAAGATCCTTCTGGCCATATTGGACTGTGTACATGTGACAACAATCTT
CCCCATTAGCAAGATGGCGAAAGGAGAAGAGAATAAAGGCAGTAACGTGATGAGATCTATTTCATGGCGTGGGAGA
GCTGATGACCCAGGTGGTGTCTCCGGGGAGGAGGCTTTTTGCCCATGACTCCCATGGCTGCTGCCCCCTGAAGGCAA
TGTGAAGCAGGCAGAGCCTGAGAAGGAGGACATCATGGTTCATGGACACCAAGCTGAAGATCATTGAGATACTCCA
GTTTTATTTTGAATGTGAGGTTGGATTATAGGATCTCCTGCCTCCTGTGTATATTTAAGCGAGAGTTTGATGAAAG
CAATTCCCAGACTTCAGAAACATCCTCCGGAACAGCAGCCAAGAAGGGCCAAGTAATGTACCAGGTGCTCTTGA
CTTTGAACACATTGAAGAACAAGCAGAAGGCATCTTTGGAGGAAGTGAGGAGAACACCCCCACTGGACTTGATGA
CCACGGCGGCAGAACCTTTCTCCGTGTCTGCTCCACTTGACGATGCATGACTACCCACCCCTGGTGTGAGGGGC
CCTGCAGCTCCTCTTCCGGCACTTCAGCCAGAGGCAGGAGGTGCTCCAGGCCTTCAAACAGGTTCAACTGCTGGT
TACCAGCCAAGATGTGGACAACCTACAAACAGATCAAACAAGACTTGGATCAACTGAGGTCCATCGTGGAAAAGTC

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FIGURE 1964B

AGAGCTTTGGGTGTACAAAGGGCAGGGCCCCGATGAGACTATGGATGGTGCATCTGGAGAAAATGAACATAAGAA
AACGGAGGAGGGAAATAACAAGCCACAAAAGCATGAAAGCACCAGCAGCTACAACCTACAGAGTGGTCAAAGAGAT
TTTGATTTCGGCTTAGCAAACCTCTGTGTTCAAGAGAGTGCCTCAGTGAGAAAGAGCAGGAAGCAGCAACAGCGTCT
GCTCCGGAACATGGGCGCGCACGCCGTGGTGCTGGAGCTGCTGCAGATTCCCTATGAGAAGGCCGAAGATACCAA
GATGCAAGAGATAATGAGGTTGGCTCATGAATTTTGCAGAATTTCTGCGCAGGCAACCAGCAGAATCAAGCTTT
GCTACATAAACACATAAACCTGTTTCTCAACCCAGGGATCCTGGAGGCAGTAACCATGCAGCACATCTTCATGAA
CAATTTCCAGCTTTGCAGTGAGATCAACGAGAGAGTGTTCAGCACTTCGTTCACTGCATAGAGACTCACGGTCCG
GAATGTCCAGTATATAAAGTTCTTACAGACAATTGTCAAGGCAGAAGGGAAATTTATTAATAAATGCCAAGACAT
GGTTATGGCCGAGCTGGTCAATTCGGGAGAGGATGTCTCGTGTTCTACAACGACAGAGCCTCTTCCAGACTCT
GATCCAGATGATGCGGTGAGAACGGGATCGGATGGATGAGAACAGCCCTCTCATGTACCACATCCACTTGGTCGA
GCTCCTGGCTGTGTGCACGGAGGGTAAGAATGTCTACACAGAGATCAAGTGCAACTCCCTGCTCCCGCTGGATGA
CATCGTTTCGCGTGGTGACCCACGAGGACTGCATCCCTGAGGTTAAAATTGCATACATTAACCTTCTGAATCACTG
CTATGTGGATACAGAGGTGGAATGAAGGAGATTTATACCAGCAATCACATGTGGAAATTGTTTGAGAATTTCTCT
TGTAACATCTGCAGGGCCTGTAAACAACACTAGTGACAGGAAACATGCAGACTCGATTTTGGAGAAGTATGTCAC
CGAAATCGTCATGAGTATTGTTACTACTTTCTTCAGCTCTCCCTTCTCAGACCAGAGTACGACTTTGCAGACTCG
CCAGCCTGTCTTTGTGCAACTGCTGCAAGGCGTGTTCAGGGTTTACCCTGCAACTGGTTAATGCCAAGCCAAAA
AGCCTCCGTGGAGAGCTGTATTTCGGGTGCTGTCTGATGTAGCCAAGAGCCGGGCCATTGCCATTCCCGTGGACCT
GGACAGCCAAGTCAACAACCTCTTTCTCAAGTCCCACAGCATTGTGCAGAAAACAGCCATGAAGTGGCGGCTCTC
AGCCCGCAATGCCGCACGCAGGGACTCTGTTCTGGCAGCTTCCAGAGACTACCGGAATATCATTGAGAGATTGCA
GGACATCGTCTCCGCGCTGGAGGACCGTCTCAGGCCCCGTGGTGACGGCAGAGTTATCTGTGCTCGTGGATGTTCT
CCACAGACCCGAGCTGCTTTTCCAGAGAACACAGACGCCAGAAGGAAATGTGAAAGTGGCGGTTTTCATTTGCAA
GTTAATAAAGCATAACAAACAGCTGCTAGAAGAAAATGAAGAGAAGCTCTGCATTAAGGTCCTACAGACCCCTGAG
GGAAATGATGACCAAAGATAGAGGCTATGGAGAAAAGGGTGAGGCGCTCAGGCAAGTTCTGGTCAACCGTTACTA
TGGAACGTCAGACCTTCGGGACGAAGAGAGAGCCTTACCAGCTTTGGCAATGGCCCACTGTCTAGCAGGAGGACC
CGGCAAGCCCCGGGGAGGAGGGGGAGGTTCCGGATCCAGCTCTATGAGCAGGGGTGAGATGAGTCTGGCCGAGGT
TCAGTGTCACCTTGACAAGGAGGGGGCTTCCAATCTAGTTATCGACCTCATCATGAACGCATCCAGTGACCGAGT
GTTCCATGAAAGCATTCTCTGGCCATTGGCCCTTCTGGAAGGAGGCAACACCACCATCCAGCACTCCTTTTTCTG
TCGCTTGACAGAAGATAAGAAGTCAGAGAAATCTTTAAGGTGTTTATGACCGGATGAAGGTGGCCCAAGCAAGA
AATCAAAGCAACAGTGACAGTGAACACCAGTGACTTGGGAAATAAAAAGAAAGACGATGAGGTAGACAGGGATGC
CCCATCACGGAAGAAAAGCTAAAGAGCCCAACACAGATAACAGAAGAGGTCCGGGATCAGCTCCTGGAGGCCTC
CGCTGCCACCAGGAAAGCCTTCACCACTTTCAGGAGGGAGGCTGATCCCGACGACCACTACCAGCCTGGAGAGGG
CACCCAGGCCACTGCCGACAAGGCCAAGGACGACCTGGAGATGAGCGCGGTATCACCATCATGCAGCCCATCCT
CCGCTTCCTTCAGCTCCTGTGTGAAAACCACAACCGAGACCTGCAGAACTTCCCTCGGTTGCCAAAATAACAAGAC
CAACTACAATTTGGTATGTGAGACCCGTCAGTTTCTGGACTGTATTTGTGGAGCACAACCTGGAGGCCTTGGTCT
TCTGGGCTTGATATAAATGAAAAGAAGCTAGCGCTTATCAACCAAAACCTGGAAAGTCTGACCGAATACTGTCA
AGGACCTTGCCATGAGAACCAAGAACTGCATAGCCACCCATGAATCCAATGGCATTGACATCATCACAGCCCTGAT
CCTCAATGATATCAATCCTTTGGGAAAGAAGAGGATGGACCTTGTGTTAGAACTGAAGAACAATGCCTCGAAGTT
GCTCCTGGCCATCATGGAAAGCAGGCACGACAGTGAAGAACGCAGAGAGGATACTTTATAACATGAGGCCCAAGGA
ACTGGTGGAAAGTGATCAAGAAAGCCTACATGCAAGGTGAAGTGAATTTGAGGATGGAGAAAACGGTGAGGATGG
GGCGGCGTCCCCCAGGAACGTGGGGCACAACATCTACATATTAGCCCATCAGTTGGCTCGGCATAACAAAGAACT
TCAGAGCATGCTGAAACCTGGTGGCCAAGTGGACGGAGATGAAGCCCTGGAGTTTATGCCAAGCACACGGCGCA
GATAGAGATTGTGAGATTAGACCGAACAATGGAACAGATAGTCTTTCCCGTGCCAGCATATGTGAATTCCTAAC
CAAGGAGTCAAACTACGAATTTACTATACAGAGAGAGACGAACAAGGCAGCAAAATCAATGATTTCTTTCT
GCGGTCTGAAGACCTCTTCAATGAAATGAATTGGCAGAAGAACTGAGAGCCCAGCCCGTGTGTACTGGTGTGC
CCGCAACATGTCTTTCTGGAGCAGCATTTCGTTTAACTTGGCCGTCTGATGAACCTGCTGGTGGCGTTTTTCTA
CCCGTTTAAAGGAGTCCGAGGAGGAACCCTGGAGCCCCACTGGTCGGGACTCCTGTGGACAGCCATGCTCATCTC
TCTGGCCATCGTCATTGCCCTCCCCAAGCCCCATGGCATCCGGGCCTTAATTGCCTCCACAATTCTACGACTGAT
ATTTTCAGTCGGGTTACAACCCACGTTGTTTCTTCTGGGCGCTTTCAATGTATGCAATAAATCATCTTTCTAAT

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FIGURE 1964C

GAGCTTTGTGGGCAACTGTGGGACATTACAAAGAGGCTACCGAGCCATGGTTCTGGATGTTGAGTTCTCTATCA
TTTGTGTATCTGGTGATCTGTGCCATGGGGCTCTTTGTCCATGAATTCTTCTACAGTCTGCTGCTTTTTGATTT
AGTGTACAGAGAAGAGACTTTTGCTTAATGTCAATTAAGAGTGTCACTCGCAATGGACGGTCCATCATCCTGACAGC
AGTTCTGGCTCTGATCCTCGTTTACCTGTTCTCAATAGTGGGCTATCTTTTCTTCAAGGATGACTTTATCTTGGA
AGTAGATAGGCTGCCCAATGAAACAGCTGTTCCAGAAACCGGCGAGAGTTTGGCAAGCGAGTTCCCTGTTCTCCGA
TGTGTGTAGGGTGGAGAGTGGGGAGAACTGCTCCTCTCCTGCACCCAGAGAAGAGCTGGTCCCTGCAGAAGAGAC
GGAACAGGATAAAGAGCACACATGTGAGACGCTGCTGATGTGCATTGTACCGTGTGAGTCACGGGCTGCGGAG
CGGGGGTGGAGTAGGAGATGTACTCAGGAAACCGTCCAAAGAGGAACCCCTGTTTGCTGCTAGAGTTATTTATGA
CCTCTTGTCTTCTTTCATGGTCATCATCATTGTTCTTAACCTGATTTTTGGGGTTATCATTGACACTTTTGCTGA
CCTGAGGAGTGAGAAGCAGAAGAAGGAAGAGATCTTGAAGACCACGTGCTTTATCTGTGGCTTGAAAAGAGACAA
GTTTGACAACAAGACTGTCACCTTTGAAGAGCACATCAAGGAAGAACAACATGTGGCACTATCTGTGCTTCAT
CGTCCTGGTGAAAGTAAAGGACTCCACCGAATATACTGGGCTGAGAGTTACGTGGCAGAAATGATCAAGGAAAG
AAACCTTGACTGGTTCCCCAGGATGAGAGCCATGTCATTGGTCAGCAGTGATTCTGAAGGAGAACAGAATGAGCT
GAGAAACCTGCAGGAGAAGCTGGAGTCCACCATGAAACTTGTACGAACCTTTCTGGCCAGCTGTGCGAATTAAA
GGATCAGATGACAGAACAAGGAAGCAGAAACAAAGAATTGGTCTTCTAGGACATCCTCCTCACATGAATGTCAA
CCCACAACAACCAGCATAAGCAAATGAAAGAAAGGAATTGTATTTACCTTTTATAATTATTATTAGTGTGGGTAT
GGCTAATGAGTTCTGATTACCCACGAAGGTTACATTTATGCTGAATACATTTGTAAATACTCAGTTTTATACTG
TATGTATATGATTGCTACTCTAAAGGTTTGGATATATGTATTGTAATTAGAATTGTTGGCATGATGACATTTTCAT
TTGTGCCAAAAATATTAATAATGCCTTTTTTGGAAAGGACTAACAGAAAGCACCTGATTTGCACTTGAACCAGATT
ATAGATTTAAAAGTATATGACATGTATTTTGTATTTAAAAGTAAAGTATAGCCAGTATTTATGTTTTTTATAAACT
GTGCAATACGAATTATGCAATCACAATACATTTGTAGCTCCCGAGTGTCTAAAGGGAGTGCACCTTCTTTGAAGC
TGGTGTGTTAATACTATGTAATAAATGGTTAACTTTCAAATGATGCTGCTGCCAAAATTATATTAATAGTGAGTT
TCAGGCCCCCTGGGCATTTTGTACCATGTAATTATCCTCTGGTGATGCTGTTTCTCGTTAGTGGCAGTAGTGCCTC
CGTCTCCTAGTGATAATGCTCCAAGTCTATGAACTGTTAAATCAGCATTCAATTTAAGAAAAGCAACTTTAGTTT
CAAAGATACTTTTAAGCTTCTAAATTGATCATTTAACTATTTCTTTAAATAAGAGAGCCAAATTAGAGGCTCAT
ACTTTAGCTTGTGAAGAAGATAATGAATTTTTTAAAGGGAACCTTTCTATGCAATGTTTCAAGGATAAATCGATACTG
CTGGCCAATCAGTGTCTCTCCTGGGTAAATTTTGTATGTCGCATTATAAAGACATGCATAATTGATGGTTTCTAG
ATTATCTAGTCCAAACAATAGAGTTTATTTTTTCTTCATCTGAACCAACATGCTACAGTAGCTAAGAAGTATTAA
AACTATATACATCCATATAAAGATGAAATATGAACTATCTCATTAGAAGTCATAGTTGACCACAGACATGTTATT
CTTCTGAAAGAGCCACATTTTGGTTTTATTTCTTGTACATGATTTCTTTTCTTGATGGATGAAAAATATGAAAT
GAAATCTTTTATATCTGTTGCCTAGTTTTGTACATGGATCTCATTTTACAAGAGAATCTCTCTGCTA

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FIGURE 1965

MSDKMSSFLHIGDICSLYAEGSTNGFISTLGLVDDRCVVQPETGDLNNPPKKFRDCLFKLCPMNRYSAQKQFWKA
AKPGANSTTDAVLLNKLHHAADLEKKQNETENRKLLGTVIQYGNVIQLLHLKSNKYLTVNKRLPALLEKNAMRVT
LDEAGNEGSWFYIQPFYKLRSIGDSVVIGDKVVLNPVNAGQPLHASSHQLVDNPGCNEVNSVNCNTSWKIVLFMK
WSDNKDDILKGGDVVRLFHAEQEKFLTCDEHRKKQHVFRLRTTGRQSATSATSSKALWEVEVVQHDP CRGGAGYWN
SLFRFKHLATGHYLA AEVDPDQDASRSRLRNAQEKMVYSLVSVPEGNDISSIFELDPTTLRGGDSLVP RNSYVRL
RHLCTNTWVHSTNIPIDKEEEKPVMLKIGTSPVKEDKEAFAIVPVSPA EVRDLDFANDASKVLGSIAGKLEKGTI
TQNERRSVTKLLEDLVYFVTGGTNSGQDVLEVVF SKPNRERQKLMREQNILKQIFKLLQAPFTDCGDGPMLRLEE
LGDQRHAPFRHICRLCYRVL RHSQQDYRKNOEYIAKQFGFMQKQIGYDVL AEDTITALLHNNRKLEKHITAAEI
DTFVSLVRKNREPRFLDYLSDL CVSMNKSIPVTQELICKAVLNPTNADIL IETKLVLSRFEFEGVSSTGENALEA
GEDEEEVWLFWRDSNKEIRSKSVRELAQDAKEGQKEDRDVLSYYRYQLNLFARMCLDRQYLAINEISGQLDVDLI
LRCMSDENLPYDLRASFCRLMLHMHVDRDPQEQVTPVKYARLWSEIPSEIAIDDYDSSGASKDEIKERFAQTMEF
VEEYLRDVVCQRFPFSDKEKNKLTFEVVNLARNLIYFGFYNSDLLRLTKILLAILDCVHVTTIFFISKMAKGEE
NKGSNVMRSIHGVGELMTQVVL RGGGFLPMTPMAAAPEGNVKQAEPEKEDIMVMDTKLKIIEILQFILNVRLDYR
ISCLLCIFKREFDESNSQTSETSSGNSSQEGPSNVPGALDFEHIEEQAEGIFGGSEENTPLDLDHGGRTFLRVL
LHLLTMHDYPPLVSGALQLLFRHFSQRQEV LQAFKQVQLLVTSQDVDNYKQIKQDLDQLRSIVEKSELWVYKGQGP
DETMDGASGENEHKKTEEGNNKPQKHESTSSYNRVVKEILIRLSKLCVQESASVRKSRKQQORLLRNMGHAVV
LELLQIPYEKAEDTKMQEIMRLAHEFLQNF CAGNQQNQALLHKKHINFLNPGILEAVTMQHIFMNNFQLCSEINE
RVVQHFVHCIE THGRNVQYIKFLQTI VKAEGKFIKKCQDMVMAELVNSGEDVLV FYNDRASFTLIQMMR SERDR
MDENSPLMYHIHLVELLAVCTEGKNVYTEIKCNSLLPLDDIVRVVTHEDC IPEVKIAYINFLNHCYVDTEVEMKE
IYTSNHMWKLFENFLVDICRACNNTSDRKHADSILEKYVTEIVMSIVTTFFSSPFSQSTTLQTRQPVFVQLLQG
VFRVYHCNWLMP SQKASVESCIRVLSDVAKSRAIAIPVDLDSQVNNLFLKSHSIVQKTAMNWRLSARNAARRDSV
LAASRDYRNIIERLQDIVSALEDRLRPLVQAE LSVLVDVLHRPELLFPENTDARRKCESGGFICKLIKHTKQ LLE
ENEEKLCIKVLQTLREMMTKDRGYGEKGEALRQVLVNRYYGNVRPSGRRESLTSFGNGPLSAGGPGKPGGGGGGS
GSSSMSRGEMSLAEVQCHLDKEGASNLVIDLIMNASSDRVFHESILLAIALL EGGNTTIQHSFFCRLTEDKKSEK
FFKV FYDRMKVAQQEIKATVTVNTSDLG NKKKDDEVDRDAPSRKKAKEPTTQITEEVRDQLLEASAATRKATTF
RREADPD DDHYQPGEGTQATADKAKDDLEMSAVITIMQPI LRFLQLLCENHN RD LQNF LRCQNNKTNYNLVCETLQ
FLDCICGSTTGGLGLLGLYINEKNVALINQ TLESLETCQGPCHENQNCI

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FIGURE 1966

GCGGCCGCCTCCTCTTCGGGGTCATTAAAGCCAATGAGCCGCGCGCCTCTGCCGAGCGCAGCCAACTAAATCGGC
TTGGATGATTTCGCGACCTGAGCAAGATGTACCCGCAGACCAGACACCCGGCACCGCATCAGCCTGCTCAACCCCTT
TAAATTTACAATTTCCGAATCCTGTGATCGGATTAAGGAAGAGTTTCAGTTTTTACAGGCTCAATACCACAGTCT
GAAGCTGGAATGTGAGAACTCGCCAGTGAGAAGACAGAGATGCAGCGGCATTATGTCATGTATTATGAAATGTC
CTATGGGTTGAATATAGAAATGCACAAGCAGGCAGAGATTGTCAAGAGGCTGAATGCTATCTGTGCACAAGTCAT
TCCTTTCTGTCCCAAGAGCACCAGCAACAAGTGGTGCAGGCTGTGGAACGGGCCAAGCAGGTGACCATGGCAGA
ACTGAACGCCATCATTGGGCAACAACCTCCAGGCCCAGCATTTATCACATGGACATGGTCTCCCCGTACCTCTGAC
TCCACACCCCTTCAGGGCTCCAGCCCCCTGCCATTCCACCCATCGGTAGCAGTGCCGGGCTTCTGGCCCTCTCCAG
TGCTCTAGGAGGTCAGTCCCATCTTCCAATTAAAGATGAGAAGAAGCACCATGACAATGATCACCAAAGAGACAG
AGACTCCATCAAGAGCTCTTCAGTATCCCCATCAGCCAGTTTCCGAGGTGCTGAGAAGCACAGAACTCCGCAGA
CTACTCCTCAGAGAGCAAAAAGCAGAAAACCTGAAGAAAAGGAAATTGCAGCTCGTTATGACAGCGATGGTGAGAA
AAGTGATGACAACTTGGTGGTTGACGTTTCCAATGAGGATCCATCTTCCCCTCGAGGGAGCCAGCACATTCCCC
CAGAGAGAATGGCCTAGACAAGACACGCCTGCTCAAGAAAAGATGCCCGATTAGTCCAGCCTCTATTGCATCTTC
CAGCAGTACTCCCTCCTCCAAATCCAAAGAACTTAGCCTTAATGAAAAATCTACTACTCCCGTCTCAAAGTCCAA
TACCCCTACTCCACGAACCTGATGCGCCACCCCAAGGCAGTAACCTCTACTCCCGGATTGAGGCCTGTACCTGGAAA
ACCACCAGGAGTTGACCCTTTGGCCTCAAGCCTAAGGACCCCAATGGCAGTACCTTGTCCATATCCAACTCCATT
TGGGATTGTGCCCCATGCTGGAATGAACGGAGAGCTGACCAGCCCCGGAGCGGCCTACGCTGGGCTCCACAACAT
CTCCCCCTCAGATGAGCGCAGCTGCTGCCGCCGCCGCTGCTGCTGCTGCCTATGGGAGATCACCAGTGGTGGGATT
TGATCCACACCATCACATGCGTGTGCCAGCAATACCTCCAAACCTGACAGGCATTCCAGGAGGAAAAACCAGCATA
CTCCTTCCATGTTAGCGCAGATGGTCAGATGCAGCCTGTCCCTTTTCCACCCGACGCCCTCATCGGACCTGGAAT
CCCCCGGCATGCTCGCCAGATCAACACCCTCAACCACGGGGAGGTGGTGTGCGCGGTGACCATCAGCAACCCAC
GAGACACGTGTACACGGGTGGGAAGGGCTGCGTCAAGGTCTGGGACATCAGCCACCCAGGCAATAAGAGTCTGT
CTCCAGCTCGACTGTCTGAACAGGGATAACTACATCCGTTCCCTGCAGATTGCTCCCTGATGGTTCGCACCCCTAAT
TGTTGGAGGGGAAGCCAGTACTTTGTCCATTTGGGACCTGGCGGCTCCAACCCACGCATCAAGGCAGAGCTGAC
ATCCTCGGCCCCCGCCTGCTATGCCCTGGCCATCAGCCCCGATTCCAAGGTCTGCTTCTCATGCTGCAGCGACGG
CAACATCGCTGTGTGGGATCTGCACAACCAGACCTTGGTGAGGCAATTCCAGGGCCACACAGATGGAGCCAGCTG
TATTGACATTTCTAATGATGGCACCAAGCTCTGGACAGGTGGTTTGGACAACACGGTCAGGTCTGGGACCTGCG
CGAGGGGCGGCAGCTGCAGCAGCACGACTTCACCTCCCAGATCTTTTCTCTGGGCTACTGCCCAACTGGAGAGTG
GCTTGCACTGGGGATGGAGAACAGCAATGTGGAAGTTTGCATGTACCAAGCCAGACAAATACCAACTACATCT
TCATGAGAGCTGTGTGCTGTGCTCAAGTTTGGCCATTGTGGCAAATGGTTTGTAAAGCACTGGAAAGGACAACCT
TCTGAATGCCTGGAGAACACCTTATGGGGCCAGTATATTCCAGTCCAAAGAATCCTCATCGGTGCTTAGCTGTGA
CATCTCCGTGGACGACAAATACATTGTCACTGGCTCTGGGGATAAGAAGGCCACAGTTTATGAAGTTATTTATTA
AAGACAAATCTTCATGCAGACTGGACTTCTCCTCCTGGTAGCACTTTGCTCTGTCTATCCTTTTTGTTCACCCCA
TCCCCGCATCTAAAACCAAGGATTTAGATACTCATTCAGTTGTGGAGTTTAATCCCCTTTCTTAACCTCACTT
CCCCTTGCTATTGAATTGTGAATAGTCATTAATAAACCTGTGATACCAATCTTCAGCTGTCTACTTGGAAAGAAC
ATGGAATAAGCATACTTAACAGTGAAAAGAATCTTTAATTATGTATTATATCTGTAATATATTTATTTTGTTTAA
AGAAGGCTTTCTAACAATGACTGACTAAATAAAGCTGTCTGCTCCTGCATTGAT

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FIGURE 1967

AARLCRAQPTKSAWMIRDLSKMYPQTRHPAPHQPAQPFKFTISESCDRIKEEFQFLQAQYHSLKLECEKLASEKT
EMQRHYVMMYYEMSYGLNIEMHKQAEIVKRLNAICAQVIPFLSQEHQQQVVQAVERAKQVTMAELNAIIGQQLQAQ
HLSHGHGLPVPLTPHPISGLQPPAIPPIGSSAGLLALSSALGGQSHLP IKDEKKHHDNDHQDRDRSIKSSSVSPSA
SFRGAEKHRNSADYSSSESKKQKTEEKEIAARYDSGGEKSDDNLVVDVSNEDPSSPRGSPAHS PRENGLDKTRLLK
KDAPISPAIASSSSTPSSKSKELSLNEKSTTPVSKSNTPTPRTDAPTPGSNSTPGLRPVPGKPPGVDPLASSLR
TPMAVPCPYPTPFPGIVPHAGMNGELTSPGAAYAGLHNISPQMSAAAAAAAAAAAAAYGRSPVVGFDPHHHMRVPAIP
PNLTGIPGGKPAYSFHVVSADGQMOPVFPFPDALIGPGIPRHARQINTLNHGEVVCVAVTISNPTRHVYTGKGKCVK
VWDISHPGNKSPVSQLDCLNRDNYIRSCRLLPDGRTLIVGGEASTLSIWDLAAPTTPRIKAELTSSAPACYALAI
PDSKVCFSCCSDGNIAVWDLHNQTLVRQFQGHTDGASCIDISNDGTLWTGGLDNTVRSWDLREGRQLQOHDFTS
QIFSLGYCPTGEWLAVGMENSNEVLHVTKPDKYQLHLHESCVLSLKFACGKWFVSTGKDNLLNAWRTPYGASI
FQSKESSSVLSCDISVDDKYIVTGSGDKKATVYEVIY

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FIGURE 1968A

GCCGGAAGCTGGCGTACTCCGGCAGCGAAAAGCGGTGCAGACGGGAGGAAGGCAGCTGAGCCTGAGGTGGAGGTGG
AGGTGTACCGGGCGGGACTCCAAGAAGCTGCCAGGCCTGGGAGACCCTGACATCGACTGGGAGGAGAGCGTCTGCC
TGAATCTCATCCTGCAGAAGCTGGACTACATGGTGACCTGTGCGGTGTGCACACGTGCTGACGGCGGGGACATTC
ACATCCATAAGAAGAAATCTCAGCAAGTGTTGCGCTCCCCAGTAAACACCCCATGGACAGCAAGGGGGAGGAGT
CCAAGATCAGCTACCCCAACATCTTCTTCATGATTGACAGCTTCGAGGAGGTGTTTCAGCGACATGACCGTAGGGG
AAGGAGAGATGGTCTGTGTGGAGCTGGTGGCTAGTGACAAAACCAACACGTTCCAGGGGGTCATCTTTCAGGGCT
CCATCCGCTACGAGGCGCTCAAGAAGGTGTATGACAACCGGTGAGCGTGGCCGCCCCGATGGCACAGAAGATGT
CGTTTGGCTTCTACAAGTACAGCAACATGGAGTTTGTGCGCATGAAGGGCCCCCAGGGCAAGGGCCACGCCGAGA
TGGCGGTGAGCCGAGTGTCTACAGGTGACACATCCCCCTGTGGGACTGAAGAGGACTCCAGCCCAGCTTCGCCCCA
TGCACGAGCGGGTGACCTCCTTCAGCACACCCCCCACCAGAACGGAACAACCGGCCTGCCTTCTTCTCCCCAT
CCCTCAAGAGGAAGGTGCCCGGAACCGGATCGCTGAGATGAAGAAGTCGCACTCGGCCAACGACAGCGAGGAGT
TCTTCCGGGAGGACGACGGTGGAGCCGATCTGCACAATGCAACCAACCTGCGGTCTCGGTCCCTGTGCGGCACAG
GACGGTCCCTGGTTCGGTCTGGCTGAAGCTGAACAGAGCAGATGGAACTTCTTCTCTATGCACACTTAACCT
ACGTCACGTTGCCGCTGCATCGGATTTTAAACAGACATCCTGGAAGTTCGGCAGAAGCCCATCCTGATGACCTAGC
CGCGTGCAGAGCCTGCGCAGAGCCCCGGCCGGGCCAGCCCTCGGAGTGTGCGCAAGTGCCTACCTGTCCACCGC
CACCAGGGTCTGCGATGGCACGCCAGTGTGAGCCGCGAGCCAGGCGAGGCCACTCGACTCCCGGGGCCGGGGCC
GACTCCACGAACACCAGCCCAAAGTGAAGTGCTTCTCCCTCCCCTGTGCGCTGTCTCCGCCCTGTGCCCCCG
CCCATCGCCCCCACCATCTCTGGAGAGCCCTCTGCACCCAAAGAGGACTAGAGATGCCGAGCGGCCATGAGAG
AGAGCGGAAGGAGCAGCTGATGCCAGAGCGGGGCCAGAGCGCGGGTCTATGTTTCAGTCCCCCAGCAGCAGG
CGGAACCACCAGCCAGGGCACTCAGTGCAATTGGACTGTCCACATGTTCTTGAGGAAAGCCGGTGGAAGATTCTG
GAATGCCGTGCGGATGAACCTTCAGCGCCCCGAGTCAGTCCCAGCTCATCCTCCCCAGTTTACCACCTTTGTTCTAAT
AGGAGATGGGAACACGAGAAGTTTGATGGCTTTGCCCTGGGCTGGGAATACCTCACCCACGCCCAGTTCCAGAAA
GGCCTCCAGCTGAGCAGACGGCCCCGATCCCCGCCAGAACGGCTTTTGCTTCCAGCCAAAGAACACCGCCAACAC
GCACACCTCCAACCTGGGACATCCCACGCTGGGCCCTCGCACGGAGGAACCTGCAGAATTTGGATTCTGAGGGTAG
TCGGGAGGCCTCGGTAGCCAGGCAGAACAGGATATCTGCCAAAGGTGTCTGATGTGGGGTGGGGCTGGCATCCT
CCCAGGAAGGTTCTAGGTGGGACCCCGTCTTCTGGGGGCGGGGTGTCTTTTCATCTTCCCTGGTTTCCTAGAAC
TCACTTCTTTGACGGCGTGTGTTGGTCCCATCTCTCAGACCAGCTCACTGAGGCAGAGGAGTTGCTCAGAGGCT
CACATGGGCACCCCCATTGGTTTCGTGTGAGCAGCTGCCCAGCCCCAGGCCTGCCCTCGGCCTGGTCCAGCATGAA
GGCGTTTCCATCTGCAAGGATGCACGGTACCCTCCCCGAGAGCAGGCCTGTCCCCTACCCAAGTGGGAATAAACT
GGAAGCTGGGTCTCTTTGTTGCTATGTTTTTTGTTTGAAGTTCCCAGGAATATTTGAGGGGTTCGGGTGATGTG
TTTAGGGATCTTCTCTGTGGGGGAAAAGGAAGAGGAGGTCTTGTTCTCCCATCTGTTTATTCTTTGGGCTCTGG
GAACAGGGGACTACTTTGGGGCTTCTCCAGACTTTTGATGTTGTTATTTAAAGCGAGCTATTGCATTTCAATC
TGCTCAGTTTGCCACCTGTGAAATGGGGCTGATACCACCTACCTCACTGAAGTCCCAGGGTTCAAGTGTGTGG
CTGGGTGAGGGCGTGGTCACCCGTCACTTCTGCATAGGTGCGGTGGATGTTAGACTCCTGGGATGCCCTCCTCCC
CCCTCGCCCTTTGTAATAACCTAATCTGAGACCGTGCTTGGTGGGGGATGTGAACCTTCTCTCTCCCCCAGCAG
TGTCTGCTCAGGCCTGACAGCTCAGCTCTGCACGATTTTCATGTTCTAAACCCATGTCTTAGGGCAGCACAGAGC
CAGGTGATGTGATGCCCCAAAGTGTGGGGACAGAGCCTCAGGGAGCCCCGAGCATGGTCCAGCCCCATTTGAGTG
CTCTCCGGGGATGCCAAATGCTGCTTCCAAGTTTGAAGTCCATGTGGCTAAAATACACCCATTTCTTCAGGAACTC
TTCCCCTGTTGTTCTGGGGATCTTGGGAGAAAACAGCCCTGACAGCTCGTCCGTGGGAAGATGAGGCAGTCCA
GGTTGTGAGGAGCACAGCGGCCGCCCTCTGTTCTCAGAGGTGAGGGGCGGGAGAAGGTTGTCTCTCTGGGGCC
AGCATTTGGCCAAGCTCGGAGGCTTGGCCAGCACTGCTGGATGGCTCAGAGCAAGCTGGGCTCCCCGTCTGTAAG
ATGGCAAAAATGCTGCCCCCTCACAGGGTGACCATGAGGACCAGTCACAGTGATGTGTGAAAGGGCTCGCTGGT
CACAGAAACGTGTACAAATCATGCTATTTTAGAGATCAGCCCTCAATTTGTAAGGCATGTGAACAGGGCACGCGG
TGGGCTGGTGGTTTCATAGCCGACACACAGCGCCTACCATGTGCAGCTGCCTGTCCGACCCCATCTTACAGACGA
GAAAACCAGCACACAGGCACCAAGGAAGTGTCCGGAATAACAGCAGGGGCCGGCGATGGGAGTCAAACCCAGGC
ACGCGGCCCTGGCTGCATGCTGAGCCACATGGTGTGTCCGGACAGATGGACAGACACTCGGTGGAGTCTGCCTT
TCTCAGGCCCTAAATCCCTCTCCAAAGGTACTTGCGATGCCGATTTTAAACTTGCTCAGAGCCACTTAGCCAC
TTGAGAACCAGACAGTAAGGTGTTACTCCAGGTTTGTTTTCCAAAGTAACAGATGACATGTGGAATAAAGTAA

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FIGURE 1968B

TAGAGTAACAAGTGGCAGGGCCAGAACCAGGGTCCCCAAAGTCCTGGTGTGGCACATTTGTACTTCTTGTAAGA
CCATCTTTAATTTTTCTGGGAACACACCTGCCTTTTGTGTAATGCGGGGAAGACTAATGCATGGTGACACCTGGT
TTTCCTCAACAGGACACTTGATCCCCAAAACCCCTTTAAGACCTTAGGTTTCCTCAGCGGAAAACGTACTTTAAT
CCCCAACCCCTTTAAGACATATTGGGGCTGGGCGCAGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCTG
AGATGGGTGGATCACCTGAGATCAGGAGTTCAAGACCAGCCTGACTAACATGCTGAAACCCCATGTCTACTAAAG
ATAGAAAAATTAGCCGGACATGGTGGCAGGCACCTGTAATCCCAGCTACTCGGAAGGCTGAGGAAGGAGAATCAC
TTGAACCTAGTAGGCAGAGGTTGCAGTGAGCCGAGATCACGCCATTGCATTCTAGCCTGGGCAACGAGAGCGAAA
CTCTGTCTC

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FIGURE 1969

RKLAYSGSESGADGRKAAEPEVEVEVYRRDSKKLPGLGDPDIDWEESVCLNLILQKLDYMTCAVCTRADGGDIH
IHKKKSQQVFASPSKHPMDSKGEESKISYPNIFFMIDSFEEVFSMTVGEEMVCVELVASDKTNTFQGVIFQGS
IRYEALKKVYDNRVSVAARMAQKMSFGFYKYSNMEFVRMKGPQKGHAEMAVSRVSTGDTSPCGTEEDSSPASPM
HERVTSFSTPPTPERNNRPAFFSPSLKRKVPRNRIAEMKKSHSANDSEEFFREDDGGADLHNATNLRSLSGTG
RSLVGSWLKLNRADGNFLLYAHLTYVTLP LHRILTDILEVRQKPI LMT

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FIGURE 1970A

ACCTCATTCCAGGAGCTCCCTCTCTGGCACCAAGCTCCCTGGGGTGAGTTTTCTTTTTGAAGAGTCCAGGAGAAC
AGGTAAGCAGTGGGGAAGCAGGGAGTCCATTTACAGGGACAGGAATCCCGGATGAAAAGTGAAAGGAGAGGGACG
GGGCCCCAAGCTGAGGGTTTTCTTCTGGTTTTCTCGGACAGCTCCTGGACCAAGACTCAGGGAACATTGAGACAGAG
CGTTTGTCACAGGAGGAGCGGGGTCAGGGCGAAGTCCCAGAGCCCCAGGCATGGCTCTCAGGGTCTCAGGCCCCG
AAGGCGGTGCATGGGCTGGGGAGGTGCAGCATTGGGGATTCCCCATCTCCGCAGAGTTTCTTCTTCTCCCTCTCCC
AGCCTGCGACGGGTCTTCTTCTTCTGGACACTCACGACGCGGACCCAGTTCTCACTCCCACTGAGTGTGCGGGTTTC
TAGGGAAGCCAATCAGCGTCGCGCGGCCCCGGTTCTAAAGTCCCCACGCACCACCGGGACTCGGAGTCTCCCCAG
ACGCCGACGATGGGGTCATGGCGCCCCGAACCTCCTCTGCTGCTCTCGGGACCCTGCCCTGGCCGAGACCTGG
GCGGGTGAGTGCAGGGGTCAGGAGGGAACGGCCTCTGCCGTGAGGAGCGAAAGGTCCACCTGGCTGGGGCGCAGG
ACCCGGGGAGCCGCGCCGGGAGGAGGGTCTGGGCGGGTCTCAGCCCCCTCTCGCCCCAGGCTCCCACTCCATGAG
GTATTTACGACCCGCCGTTTTCTGGCCGGGCGCGGGGAGCCCAGCTTCATTGCCGTGGGCTACGTGGACGACAC
GCAGTTCGTGCGGGTCGACAGTGACGCCGTGAGTCTGAGGATGAAGACGCGGGCGCGGTGGGTGGAGCAGGAGGG
GCCGGAGTATTGGGACCTACAGACACTGGGCGCCAAGGCCCAGGCACAGACTGACCGAGTGAACCTGCGGACCCCT
GCTCCGCTACTACAACCAGAGCGAGGCGGGTGAGTGACCCCGGCCCGGGGCGCAGATCACTTACTCCCCGCTCCA
TGCTTCACGGACGGCCCTGGTCCCCTGAGTCTCCGGGTCCAAGATCGACCCCGAGGCTGCGGACCTGCAGAGATC
CTCGACCCGGGAGAGCCCCAGGCGCCTTTACCTGGTTTTCATCTTCAGTTGAGGCCAAAATCTCCGCAGGTTGCTA
GGGTCCGGGCCAGGGCTCGGTGGGCGGGGCTGACCGCGGGAACTGGGCCAGGGTATCACATCCTCCAGGGAATGT
TTGGCTGCGACCTGGGGCCCGACGGGCGTCTCCTCCGCGGGTATGAGCAGTATGCCTACGACGGCAAGGATTACA
TCGCCCTGAACGAGGACCTGCGCTCCTGGACCGCCGCGGATACCGCGGCTCAGATTACCCAGCGCAAGTATGAGG
CGGCCAATGTGGCTGAGCAAAGGAGAGCCTACCTGGAGGGCACCTGCATGGAGTGGCTCCGCAGACACCTGGAGA
ACGGGAAGGAGACGCTGCAGCGCGCGGGTACCAGGGGCCATGGGGAGCCTGCTCGATCTCCTGTAGATCTCCCGG
GCTGGCCTCGCACAAAGGAGGGGAAGAAAATGGAACACCACCAGAATATCGCCCTCCCTCCTGTCTGACGGAGA
GGAATCCTCCTGGGTTTTCCAGATCCTGTATCAGAGATTGACTCTGAGGGCCACCCCTGCTCTTCTGGGACAATT
AAGGGATGAAGTCTCTGAGGGAGTGGAGGGGAAGACAATCCCTGGAAGACTGATCCGCGGTCCCCTTTACCCCCA
CAGCAACCTTGGGCACCAGGACTTTTCTCCCGGGCCTTGTTCTCTGCCTCACACTCAATGTGTGCGAGTCTGAC
TCCAGCTCCTCTGAGTCCCTTGGCCTCCACTCAGATCAGGACCAGAAGTCCCTGCTACCCTGCTCAGAGACTAGA
ACTTTCCAAGGAATAGGAGATTATCCCAGGCGCCTGTGTCCAGGCTGGTGTCTGGGCTCTGTGCTCCCTTCCCCA
CCCCAGGTGTCTATTATCAGGATGGTCACATGGGCGCTGCTGGGGTGTCCCATGAGGAATGCAAAGTGCCCTGA
GTTTTCCGACTCTTCTTTTACAGCCCCCCCCAAGACACACGTGACCCACCCCCCTCTCTGAACATGAGGCATAAC
GAGGTCTGGGTTCTGGGCTTCTACCCTGCGGAGATCACATTGACCTGGCAGCGGGATGGGGAGGACCAGACCCA
GGACATGGAGCTCGTGGAGACCAGGCCCCAGGGGATGGAACCTTCCAGAAGTGGGCGGTTGTGGTAGTGCCTTC
TGGAGAGGAACAGAGATACACATGCCATGTGCAGCACAAAGGGGCTGCCCAAGCCCCCTCATCCTGAGATGGGGTA
AGGAGAGAGATGGGGGCGGCCATGTCTCTTAGGGAAAGCAGGAGCCCCCTCTGGAGACCTTTAGCAGGGTGGGGC
TGGGTCTTGAGGTGAGAACCCTCACATTCCCCCTCCTTTCCAGAGCCCTCTCCCCAGCCCAACCATCCCCATTGT
GGGTATCATTGCTGGCCTGGTTCTCCTTGGAGCTGTGGTCACTGGAGCTGTGGTCACTGCTGTGATGTGGAGGAA
GAAGAGCTCAGGTGGGGAAGGGGTGAGGAGTCGGGTTTTGAGTTTTCTTGTTCCCACTGGGGGTTTTCAAGCTCCAGG
TAGAAATGTGTTCTGCCTGGTTACCGGGAAGCACCATCCACATTATGGGCCTACCCAGCCTGGGCCCTGTGTGC
CAGCACTTACTCTTTTTGTAAGCACCTGTGACAATGAAGGACAGATTTCTCACCTTGATGATTGTAGTGATGGGGA
TCTGACCCAGTAATCACAGGTGAGGGGAAGGTCTCTGCTGAGGACAGACCTTAGGAGGGCAGTTGGTCAGGACCA
CATCTGCTTTCTTGTTTTCTGATCCTGCCCTTGGTTTTGCAGTCACACATTTCTGGAAACTTCTCGAGGTTCCAAG
ACTAGGAGGTTCTCTAGGACCTCATGGCCCTGCTACCTTCCTGGCCTCTCACAGGACGTTTTCTTCCCGCAGAT
AGAAAAGGAGGGAGCTACTCTCAGGCTGCAAGTAAGTATGAAGGAGGCTGATCCCTGAGATCCTTGGGATATTGT
GGTTGGGAGCCATGGGGGAGCTCACCACCCCAACAATTCCTCCTTAGCCACATCTCCTGTGGGATCTGACCAGG
TTCTGTTTTTGTCTACCCAGGCAGCCAAAGTGCCCAGGGCTCTGATGTGTCTCTCACGGCTTGTAAGCTGAG
ACCCTGGGGAGGCTGATGTGTGTGGTTGTTGGGGTAACAGTGGATATAGCTGTGCTATGGGGTTTTCTTTGACTT
GGATGTATTACGACATGATGGGCTGTTGAAGGTGTGACCCCTCACTGTGAGTGATATGAATTTGTTTCATGAATA
TTTTTTCTATAGTGTGAGACAGCTGCCTTGTTGGGACTGAGAGGCAAGATTTGTTTCATGCCTTCCCTTTGTGAC
TTCAAGAACCCTGACTTCTCTTTCTGCAAAGGCATCTGAATGTGTCTGTGTCCCTATAGGCXTAATGTGAGGTGG

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FIGURE 1970B

TGGGGAGACCAGCCCACACCCGTGTCCACCATGACCCTGTTCCCCACACTGACCTACATTCCCTTCCCCGATCACC
TTTCCTGTTCCAGAGAAGTGGTGCTGGGATGTCTCCATCTCTGTCTCAACTTCATGGTGCACTGAGCTGTAACCT
CTTACTTCCCTATTAAAAATTAGAATCTGAGTATAAAATTTACTTTTTTCAAATTATTTCCATGACGGGTTGATGGG
TTAATTAAAGGAGAAGATTCCCTAAAAATTTGAGAGACAAAATAAATGGAAGACATGAGAACCTTCCAGAGTCCACG
TGTTTTCTTGCTGATTTGTTGCAGGGGAGGAGAGTAGATGGGGCTGTGCCCAGTGTGTGCTCAGGCCACCATGG
GCTTTATGTGGTCACAGCTCACCTGGGTCATCTTTGCTGCTCCACTGTCCTTGGCCCTTCAGTAGAACCTTGTCC
CACCAGGACCTGTGATCACAGGGACTTGGATGTCACCTAGGGTGGTCCCTACACATCGAAGTCCTTCCGGTATGA
AGAGACAAATTTTCAGTCCCCTGTATCTTTTGCCCTCCTTCCAGGTCTCTTTCCTGGATTGTATTTTCCATCTTT
TTCCCCAGCCTTCTTAAAGGAAGCAGATTCTGAAATTTGCAGAGAGGAGGGGTCCCATAGTTTCTCATCGTAGGT
AACTTTCTGTTGGAACCTCCTCTTCTGCTTTCCTACTCTTCTTCCCTGCCTGAGTTGTAGTAATCCCAGTGCTGGCT
CCAATCCAAACTCATGCATTTATAAAGCAGAGTCTGATTTAGATTTATATGGGGTTGGAAAAATTGGACCCACAAG
GCTAGGATTATCTTTCTGAACAGAAAAATATGGCTGTGCGCTGCAGTGTGCAGGAGGGTTGGTGTGGGAGGAGG
TGGGAAGGACACACAAGCAGCCCTGGTGAGAAAAGCACTGGCAGCACTGATGTTGGTGTGAGATGATGTTGTTCT
TTAGCTACGTTAATAAAGATATTGCCTTTAGAATACAGAGGTGCTCTACAGTGATCATTCACTCAACTGACATTT
GTTGCTGCTAGGTATATGACTGTTTTTGCATTTAGAAAACATCATTAAAGTAAAAACAGAAAAATTTCTGGCCTT
GTGGTGTATACGXCTAGATG

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FIGURE 1971A

AAGACAGGAACATGGTGTTTATAAGCTGCCCTTAATGGCAGAGAACACAGACAGAAACGAGGGAAGAGAGAGAAA
TTGGGGACCTTGAAGAAAGGGGGCCAGCAGCAGGTAGGTGCCATCAGGGACAAGAACAGCACCTCCCAGGGTGGG
AGACCCAGGCCCTTCTGGCAGCAGGTCTGGATGGAAAGTGGACAGGAGGCTCACCCGTCTGCATCCCCCTGCTCC
TGCCCCCTGCTCGGCTACAAAAACCAAGGGACAGCAGCTGACCACACCCCGGTAGCCACTCCTGCATAAAGCTCT
CCCCCTCCTGTGACCAGCTGAGGACCTCAGGCTGCAGCGGAGCCATGCCCAGATACACGGTGCACGTACGTGGGGA
ATGGCTGGCAGTGCCCTGCCAGGACGCGCAGCTCACTGTGGGCTGGCTGGGCCGGGAGGCCGTGAGGCGCTATAT
CAAGAATAAGCCCAGACAATGGTGGCTTCACCTCCGTGGATGACGCGCACTTCCTTGTGCGCCGGTGCAAGGGCCT
GGGCTGCTGGACAACGAGGACCGGCTCGAGGTGGCCCTAGAGAACAACGAGTTCGTGGAAGTGGTTATAGAGGG
TGATGCCATGTCTCCTGACTTCATTCCATCTCAACCAGAAGGAGTTTATCTATACAGCAAGTACCGGGAGCCTGA
AAAGTACATCGAGTTAGATGGAGACCGTCTGACCACGGAGGATCTGGTCAACTTGGGAAAGGGACGCTACAAAAT
AAAGCTCACCCCAACTGCTGAGAAGAGGGTGCAGAAATCCAGGGAGGTCATAGATAGCATCATAAAGAGAAAAAC
AGTTGTTTACGGTATTACTACAGGTTTTGGGAAATTTGCCAGAACTGTAATTCCTATCAATAAGCTACAGGAGCT
TCAGGTCAACTTAGTACGCTCACATTCTTCAGGTGTTGGGAAACCACTAAGTCCTGAGAGGTGTGCGATGCTCTT
GGCTTTAAGGATCAATGTCTTAGCCAAAGGATACAGTGGCATTTCCTGGAGACCCTCAAACAAGTCATAGAAAT
GTTTAATGCCTCCTGCCTGCCCTATGTCCAGAGAAAGGAACCGTTGGTGCCAGTGGAGACCTTGCCCCACTCTC
TCATCTTGCTCTTGGGCTAGTTGGAGAAGGGAAGATGTGGTCTCCGAAGAGTGGCTGGGCTGATGCTAAATACGT
GCTAGAAGCCCATGGATTGAAACCAGTTATTTTTAAACCAAAAGAGGGCCTGGCACTCATCAATGGGACGCAGAT
GATCACATCCCTGGGCTGTGAAGCTGTAGAGCGAGCCAGTGCTATTGCACGGCAGGCTGACATTGTGGCAGCCCT
GACCCCTTGAGGTGCTGAAGGGCACCAACAAAGCCTTTGACACTGACATTTCATGCTCTTCGACCTCACCGTGGGCA
AATTGAAGTTGCTTTTCGGTTTTCGGTCACTCTTGGAAGTCAAGATCACCACCCATCAGAAATAGCAGAGAGTCACAG
GTTCTGTGATCGCGTCCAGGATGCATACACCTTGCGCTGCTGTCCACAGGTCCATGGTGTGGTGAATGATACAAT
AGCATTTGTGAAGAACATCATTACCACAGAAGTGAACAGCGCAACAGATAATCCTATGGTCTTTGCCAATAGGGG
AGAGACAATTTCTGGAGGAAACTTCCATGGTGAATACCCAGCCAAAGCCCTAGACTACTTGGCCATTGGCATCCA
TGAAGTTGCTGCAATCAGTGAGAGAAGAATCGAGCGGCTCTGCAATCCCTCCCTCAGTGAGCTGCCTGCCTTCCT
GGTGGCTGAAGGTGGTCTGAACTCTGGGTTTCATGATAGCTCACTGCACGGCAGCAGCCCTTGTTTCTGAGAACA
GGCTCTGTGCCATCCCTCGTCTGTTGACTCCCTCTCCACCAGCGCAGCCACGGAGGACCACGTCTCCATGGGAGG
ATGGGCAGCAAGGAAAGCCCTCAGGGTCATCGAGCATGTGGAGCAAGTGCTGGCCATCGAGCTCCTTGACGCTG
CCAGGGCATAGAGTTTCTACGTCCCCTGAAAACAACCACTCCGCTGGAGAAGGTCTATGACCTGGTGCCTCTGT
TGTAAGGCCCTGGATAAAAGATCGCTTCATGGCCCCGACATCGAGGCAGCCACAGGCTGCTCCTGGAGCAGAA
GGTTTGGGAAGTAGCTGCTCCATACATTGAAAAATACAGAATGGAGCATATTCCAGAATCAAGACCTCTTTCTCC
AACAGCCTTTTCACTGCAATTTCTGCACAAGAAATCCACCAAAATCCCGGAGTCTGAGGACCTTTTAATGGGCTTT
GTCATGAAGTAGCAGATGAGAGGGCAGTCAGTTTAGCACAAAGCAATACTAGGCTGAAGGAGAGACCTGAGAACT
TTCCTAGGTAGATCAATCCATTGTATCATTAGTTCTTCTAAAGCCTACGTTGGTTAGGCTGATGGCAGTATTAT
AGTTGCTAAATTCAGCACTGTGTTCCCTGTTGTGCTGGTTCAAGACCCACCAGGTATTTTTCAGATTATAAACTTT
TCTTTCTTTCTTAACAGTTTCAACAGGCCACTCACTCTTAAGGGTGAGAAGAATAACCACAATTGTATGTGCCTG
TTTTTTACTCTTAGCATTAGATGAATTCAAATTTGGAAACAGATTGATAGCAATTTTTTCTAAAAACATTAGACT
TTTGTTAACCTTTTTTTTTTTTTTAAATTTGCTTCAACAAGCTCTCCACCAGTTGACTTTCTTTGGCTAATTTTA
CTTTGCATGATATGCCTTAATATGCCTTCATAAATAACCATTTTAAGTCATAATTTGTCTTAAAGCTGCTTTTTT
CTTCTATTAATTGGATCATAGTAAAGAGTAGTCAATAGGGTCTTCAGCTATTAATTGTAGAGGTGATTAATAACCA
ACAAGGAGTTTCATGTGCAAAGGAGATAAGGAATGAATATAAAGATTGCTATTTGGGTGGCTCTTATTAAACTGT
GTATTTTGTACTTATCACTACACGTATCCCCCAATGCTTACATGGGAGTTTGAGGTTAGTATTTTCACTTCCTT
GGTGTTAGTACTCTATTACATTCTTATTGTAACTTCCTCATTTTACAGATAAGGAATCTTTGGGGATTAAACCA
ACCTCCTTTCTGTAATGGTAATCATTAAAAATAAGTCCTATTGATAAAGGTCAGATGGAGCCCTAGAGTGTATTAC
TGCATCTATTTTTTTTCCCGGAGAAGATAAAGGACCTTCAGGGATGGCTTAAGTGTATCTGTCCAGATGAAGGATG
GGTCACATGACCTCTTGGCTTCCCAAGTCTAAGCTCTGTGACTTTGCACCAGTGTGTGCATATATGTGCAAGGCC
CTTCAAGTGGTCTGAAACCGTGGCTCTAAAAACCACAGCTGGTGGAGAGGAGGACAGACACACTTGCCACCTTGC
CTACCTAATTGCCATCTAAATGGGCCGAACAGTGGATTTCACAATAGAGTTTTTACCCTTTAGATTTACAACCT
GTCAGGTGGAACTGAAGTGAAACTGCTGCACACAGCAATTCAGGGAGCAAAAAATGTGCTGAGGAGACTGTTT

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FIGURE 1971B

ACCTAAAGGTTGTTCTTGGTGCTATTCCTTGTCAAAATGTGAACACACACAAATGAGGTTTGTGCATTGTCATCC
GTGGGCTGCCATTGAGCCAGTAACCCCCAGTGGTCTCATGGTGCTCTTCGCTCCAGTTTGGGGAATGCTGGATTG
TTTCAGCCCCCTGCAGCCCTCCAGGTCAAATGACACTTTGTCAGTGGTCTTCTACACAGCTCTATTAGTAACG
ACAGCACACGCCTTCAAGGGAACCTCAAGGGAAACATGGAATAAACTAAGTCTCAATTGCAA

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FIGURE 1972

MPRYTVHVRGEWLAVPCQDAQLTVGWLGREAVRRYIKNKPDNGGFTSVDDAHFLVRRCKGLGLLDNEDRLEVALE
NNEFVEVVIEGDAMSPDFIPSQPEGVYLYSKYREPEKYIELDGDRLTTEDLVNLGKGRIKIKLTPAEKRVQKSR
EVIDSIIKEKTVVYGITTGFGKFARTVIPINKLQELQVNLVRSHSSGVGKPLSPERCRLALRINVLAKGYSGI
SLETLKQVIEMFNASCLPYVPEKGTVGASGDLAPLSHLALGLVGEGKMWSPKSGWADAKYVLEAHGLKPVILKPK
EGLALINGTQMITSLGCEAVERASAIARQADIVAALTLEVLKGTTKAFDTDIHALRPHRGQIEVAFRFRSLDSD
HHPSEIAESHFRFCRDVQDAYTLRCCPQVHGCVNDTIAFVKNIITTELNSATDNPMVVFANRGETISGGNFHGEYPA
KALDYLAIGIHELAAISERRIERLCNPSELPAFLVAEGGLNSGFMIAHCTAAALVSENKALCHPSSVDSLSTS
AATEDHVSMGGWAARKALRVIEHVEQVLAIELLAACQGIEFLRPLKTTTTPLEKVYDLVRSVVRPWIKDRFMAPDI
EAAHRLILLEQKVWEVAAPYIEKYRMEHIPESRPLSPATAFSLQFLHKKSTKIPESDL

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FIGURE 1973

ACAGAGAGACTTTGTCTCAAAAAAAAAAGAAAATTTTAATTTTAATGTAGACAGTATGAATTATCTTGTTCTGCA
GTTGGTTGCTTTTTTGATTGCTTATTTAATAGAGTTGTTAAGATATTTTACATCTTCTCCTGTTAGCTGTTTCAGCT
TTTCCTTTCATATTGAGAACACTACACAGTGCTGAAGTCCAGCTGGTACACACCGGGGTGACACCTTGGCTGCAT
CTGTTCTCAACAGTCAGACACTTCTTCTAATTGGTTGATGCTGGGCTGTACTGGTTGCTAAATATTGCACATCAT
TTTAAACTATTTGAGATGCACTTTTGTACTCAGGAGGCCAAGGCAGGAGGATTGCT

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FIGURE 1974

QRDFVSKKKENFNFNVD SMNYLV LQLVAF

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FIGURE 1975A

CCCAGGCCGGCTCTGGCCTCCTGACCCAGACAGCGCAGGGCGCGAGGGATCGCGCGGCCGAGCCCGGGTCGCGCC
GCTCCCAGCATCGGGGCCGCTAGCCAAGAGTTTCGAGGCCCTTCCCGATCCGGATGTGATGAAAAAGAGCAACAGAG
GGAGAAGTGTTCAGGATTGTAGGAGTGGAAGAGGGGAAAGAGAGGCAGAGAGGGGGAAGGCCCCCTCGCAGGGG
AGCCGGCTGGAGTGAGCTGGCTGGAAAGAGGGGGCGGAGTGC GCGGAGTCAGAGCCGCCACCGCTGCCGAGTTG
CCGCCACTGCGGGCTCTGGGCTGAGCCGGAGGGAGGCGGGAGGACGCGCAGGGGGCGGCCGCCGCCGTCGTCAGGC
CACCGGGGCGAAAATGCGGCCGCTGCCGGAGGCTCGCTAACTTTCCGGGGCGGAAGAGGAGGAGGAGGAGGAGGA
AGGGGCTTGAGCGACTACGGGGGATGCGGAGAAGCAGTCAGTTCCCTGCACCCAGCACCTCACAGCCCTTCCT
CCGTGCGCCCTGCCGGGCGGCGAGCTAGGCGGCAGCGGCGCGGCGCGGGCTCGGCGGAGCGGCCCCATGTCCGGCG
CGGGCGAAGCCCTCGCTCCCGGGCCCGTGGGGCCGACGCGCTGGCCGAGGCGGGCGGGCCAGCTGGGCTCCA
CAGCCCAGGGAAAATGTGATAAAGACAATACTGAGAAAGATATAACTCAAGCTACCAATAGCCACTTCACACATG
GAGAGATGCAAGACCAGTCCATTTGGGGAAAATCCTTCGGATGGTGAAGTCAATTAGAACCCAACTCAGCGCTTGC
CTCAGCTTCAGACTTCAGCACAGGTGCCAAGTGGTGAGGAAAATAGGCAAGATAAAGAACGGCCACACAGGTCTGA
GCAATGGAAAATGGAATTCACCACGGGGCCAAACACGGATCCGCAGATAATCGCAAACCTTCAGCACCTGTTTCTC
AAAAAATGCATAGAAAAATTCAGTCCAGCTTGTCTGTAAACAGCGATATCAGTAAGAAGAGCAAAAGTAAATGCTG
TCTTTTCCCAAAGACAGGCTCTTCACCTGAAGATTGTTGTGTCCACTGTATCCTGGCTTGCTTGTCTGCGAAT
TCCTGACCCTTTGCAACATTGTCCTGGGACAAGCGTCATGTGGCATCTGCACCTCAGAAGCCTGCTGCTGTTGCT
GTGGTGACGAGATGGGGGATGATTGTAAGTGCCTTGTGATATGGACTGTGGCATCATGGATGCCTGTTGTGAAT
CATCAGACTGCTTGGAATCTGTATGGAATGCTGTGGAATTTGTTTTCTTCATAAATATTTATCTTTTGTGTTGT
GTTAAACTGGAGAGTGTGTTAAAAATTTCTTTTGGGGGGAAGAAAAGCACATTGTAAGATTCTCATGAAACAAC
ATGGAATTTGCACTGTGTAAGTCAATTATTGTAAGTAATCTCTGAAAGCCTTTTTACTTTAACCAAATCTACATGGT
TTAATATGTGAAATTTTAACTACTTTAACTAGTTTTATAAAATTTCTTAATATGTTACAATAACTTAGGGACATTT
TGACACCCCTTCCCAAATGTTAAATGCCTTCTCCTTTTACCGATATTTCTGTTTCTTTTAACCGTTCTCAGG
AGCACTTTGCTCCAAATATATTATTTTTAGTGTGATTTAAACGAGGCAGTTTATTTTGATATGTATCTATTCA
TGATTGAAAGGAAGCAGTCTTGCCAGGCACGGTGGCTTACACCTGTAACCCTGGCATTTTGGGAGGCCAAGGTG
GGCAGATTGCCTGAGCTCAGGAGTTCGAGACCAGCCAGGGCAACATGGTGAACCCCATCTCTACTAAAATACAA
AAAGTTAGCTGGGCTTGCGGTGTGCGCTGTAGTCCAGCTACTCAGGAGGCTGAGGCAGGAGAATTGCTTGAA
CCCGAGAGGCGGAAGTTGCAGTGAGCCGAGATTGTGCCACTGAACTCCAACCTGCACTCCAGCCTGGGCAACAGA
GCGAGACTCCATCTCTAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA
TATTTTAAAGAACTTTAGGAAACAAACCCACATAATAGTTGGGAACCAAGTGTGATCTCTCTCCCTTACCTTC
TCCACTTGTTCAACAGACTCTGAATGCCGACTGTGTGGACTCTCTTCTCAGACTGTGGGGACAGATACAATTCC
ACTCCTGTCCACAGGAACATGAGATTTAGCAGACTAAGGAGATCTGTAAAGAATGAACCATAACCACAAGGCATAC
TGAAGTGAGGATTATAAGAGAAATAAACTCAAAATGCTGTTGGAATATGCAGAGAATTGCTACCAGAATATTCAG
TAAGGTTTCAGGGAGAATGTGGCATTGAGGACTCTCTTAGAATGAGTGATTACCTGCTATTTAAATGAATTAT
TTAGATTTTGGACAAAGATTTAGGTGGACACCCATAAACTGTGTGTGCCTTTAACCAGTTAAAAGAACAGTGCCTT
CAGCATACTTTTTTATTAGTTGTAGGAATACAGCTTTTTTGAAAAAGCTATAAAAGTTTAAATTAACATAAAATATG
CATTTTCTTACACATAATTTAAATGTTATCATACTTTTTTGATGAAAACATAATGCCTTAGTAAAAATAGCTCTAT
TTAATAAAGAAGATTGAGTACTCTGACACATTTCAATTTAAATTAGGAAATTTTAAATATTAATAATCCCAGTGTTT
TGAGTTATTGAAAGGCTTTCTTTTATTTTGAGAGCTTTAGGTCTTTTGGGATGAGAACATTTTAGTTGTTTAGT
TTGTTTCTTAAGCAGTGCTATTTTTTGTAACACAGATAAATGGAACCATTTCTTTCAATGCAGAAGAAATCTA
GATATCCCCTACTGTGACCAAATTTCTGTATTACGATTTTATGTTAAATTAACATAATATGGCAGGTTATAATGA
TCCTTAAGTGTAAGAAATCAGTCAATTACAAGAGTAATTGTATAGTTATTGAGACCTATAGTGTGTGGCTTAGA
TGAAAGGGAGAGTAAATTTTCATACCATGCTCTCTCTACTCAGTTTGATCTCTCTAAAATTTGATGTTTGGTTG
ATTTAATATAATCTTAGTAGAAATTTTGAAAGTATGCTTTGGGATTAATAATTATTTTAAATTTTCTGGCTGA
ATATCAAATGATAGTAACAACAGAAGCATAATTTAGGAAGGCTTTGCAAACCTAGCCTTTTAAGAGAGGTTT
TTAACCTGAAGCATGAGAATATATCACCTGTGGTTTTCTTTGAGATGAAACGTAGTTTCTAGTTATATCATTA
CTTAAAGGGCTTAAAAAGAAAAAATTAGCAAACCTTTGAATCTTTCTTTTATTGCTATTTACACATACATACAC
ACATACAAACCTTTAAATTTTGGGATCTGAATATAATTCTGGTAAACAGCTGTCTTCATTTTTCTCTCTAAAG
AACTTAATTCATTTGTTACATAAAATATAAGGAAATCTTTATACTATTTTACAGTAACCACAATCTAAATATTTA

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FIGURE 1975B

CATATACCCAAAATTAAC TTATGCTCATATATTAGGATGTGAGAATATCATCTGTTTATGGACACATGAAACCTC
CTAATGACCTGGAATTGTTAGAATATTTGACTTTTTATATGCAAAGTTTTTCAACCAAGTGGTTTGTCTAATATT
TAAACATGTACTGGCACAATTTGTGATGAAAATATTAGCACATTTGCAATAATGTTTCTCCATAACAGAGAATGT
TAATGGATACCAGAATTTTATTTTTGTATTTATGTTCATAGTACTTTTCCTCTTGTCTACTCCAGACAGTTATTC
CATAAAGCATTTGTATAATTAAAAGGAAAACAGAAAAAGGAAAAGTAGGCAAATGTGAAAATAGTTTCAATATAT
CTTATGATTTCTTAATGTAAAATGTTTTGTTGAAGTATATGGCTATCATGACTAAGTGCTAGAATTTATAGTTAC
AGGCGGTGTCCTTTTAAATGTGGAAAGGCTTTTAAAAATATTTTAAAAC TGGACCTGTATTATCCTGAATACACTA
TTTTGAAAATTTTAAAGAAAAA

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FIGURE 1976

VRGVRAATAAAVAATAASGLSRREAGGRAGAAAAVVRPPGRKCGRCRRLANFPGRKRRRRRRRKGLGATTGGCGEA
VSSLHPAPHSPSSVRPAGRRARRQRRGAGSAERPMSGAGEALAPGPVGPQRVAEAGGGQLGSTAQGKCDKDNTK
DITQATNSHFTHGEMQDQSIWGNP SDGELIRTQPQRLPQLQTSAQVPSGEEIGKIKNGHTGLSNGNGIHHGAKHG
SADNRKLSAPVSQKMRKIQSSLSVNSDISKKSKVNAVFSQKTGSSPEDCCVHCILACLFCEFLTLCNIVLGQAS
CGICTSEACCCCGDEMDDCNCPCDMDCGIMDACCESSDCLEICMECCGICFPS

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FIGURE 1977

GCGGCCGCGGTCCTCCCTCCACCTCCTCCTCGGCCCCCCTCGCTTCCCTCCTCCCACTTCCCCGAGCTCCGGCG
TCGTCCCCGGCCACGCTCGACGCTGCTGCGAGGAACAAAGGAAGACCCCGCGGCGGCGGCGGCCACCTCCGCCTG
CTGCTCCGACCCGCTCCCGGCCCGCGGCGGCGGCCAGGGCGCCCGGCTCAGCCTTCCCGGAGGCCTCGGCCCG
GCCTCATCGTGCCGGCTTCGCGCGCGAACCCGGCTTTCGCATTTGGGACCCTGCAGGAAAAAT**ATG**GCTCAGGAG
ACTAACCAGACCCCGGGGCCCATGCTGTGTAGCACAGGATGTGGCTTTTATGGAAATCCTAGGACAAATGGAATG
TGTTCAGTTTGCTACAAAGAACATCTTCAGAGGCAGCAAAATAGTGGCAGAATGAGCCCAATGGGGACAGCTAGT
GGTTCCAACAGTCCTACCTCAGATTCTGCATCTGTACAGAGAGCAGACACTAGCTTAAACAACGTGTGAAGGTGCT
GCTGGCAGCACATCTGAAAAATCAAGAAATGTGCCTGTGGCTGCCTTGCTGTAACCTCAGCAAAATGACAGAAATG
AGCATTTCAGAGAGGACAAAATAACTACCCGAAAAACAGAGGTGTCAGAGCCAGTTGTCACTCAGCCCAGTCCA
TCAGTTTCTCAGCCCAGTACTTCTCAGAGTGAAGAAAAAGCTCCTGAATTGCCCAAACCAAGAAAAACAGATGT
TTCATGTGCAGAAAGAAAGTTGGTCTTACAGGGTTTGACTGCCGATGTGGAAATTTGTTTTGTGGACTTCACCGT
TACTCTGACAAGCACAACTGTCCGTATGATTACAAAGCAGAAGCTGCAGCAAAAATCAGAAAAGAGAATCCAGTT
GTTGTGGCTGAAAAAATTCAGAGAATA**TAAA**ATTACTTCTTGTGAAGAGACTGAACTTTGTTTTATTTTAATAT
ATCGTAGGAAAACATTAAAGAGCAGATGCATGGCCATTTTTCTTTGATGTTCTCCAGAGTTTTACATTACACTTG
TCTGTCTTATAATTGATATTTTAGGATGTTTGGGTGTTTGTACAGGCAGAATTGGATAGATACAGCCCTACAAA
TGTATATGCCCTCCCCTGAAAAAAATTGGATGAAAACTGCACAGCAAAGTGAAACACACAGATAATAGGAACAA
AATGTAGTTCCCATGTGCCAAACAAAATAAATGAAATCTCTGCATGTTTGAGCATATCTGCCTTTTGGGAATGT
AATCAAGGTATAATCTTTGGCTAGTGTTATGTGCCTGTATTTTTTTTAAATGGTACACCAGAAAAAGGACTGGCAG
TCTACTTCTACCATAGTTAAACTTCACCCCTCTTTAATTTACAAACATATTCTTTGGAAGCAGGAAGAAATGCTCA
TAAAGAGGATCAGACCTTCTTTCCCGTGAAACCAGTATTTGGCGCCATATATAAGCCTGGTTAAATTGGTCATCT
AAAGCTGTCAAATAAGACATTCTGTGAAAGGTAAACATCGAAACTGGTTATAAGTAAACCATCAAGCCAACAAC
AGGGTCTTGAGATAACCTTTGAAGCTTATTGTACTGGCCTGCACCAGAAGATGTCTGCATTACTCATTGCTAAAA
ATGTGTAGCACAGAAGCTGCACTAGGATTAATTTGTTTACAAGAAGAAATTTAAACTCTACGTTTGGTTTTACAT
ACAGCAGCTCTATTGAATAACATGCATCTGAATTTAAGTTGCAAAGGTATCTGAATAATTTTTCATGTGCATCT
TTTGTGAATGTTTTGGTTCAAGAAAGAATGTTTAAAGCTTTTTTAAAGACTTCAGTTCTTAATGTAACGTGTACC
CTTCTGCATGGAAAATCATAACCAACATGGCTGCAGTAGACTTCTTAGTGGTATCCAGCGCCACTTGCAGAGGGC
TGCTTTATCATATTGTACTTGGGTGTAGGACTCTAGTGTTCTTGGGTGTATTGCATGGGCTGCATTATCTACAGC
ATTGTACAATAACAACCTAGAAAAGGCAGTATACTTCACTGATGCTTGTCTGGTAATAATCACTTCTGTGTTATAA
TGGAAGGTTTTTTGTGATGTATGAACTTGTGTTTTTTATATATAAATGAGTATAGTTAGTGTTGTGGTAATGCC
TGTTTTCACTGTAAATAGTTAAGTATGTACACGAGGCACTACTTCTGATTTATTGCAATGTTTCAGTCCTAGTTT
TTACTTTTATTCTTAAAGCATTCACTTTTGTCTTCAATTTTATGTACCTTAGTTCTGAGTTAGACCTGCAGATGT
GTACAGATAGTTCATATTTATGTATTGCACATAATCATGCTATTTCAGCATTGATGCTATATTGTATTATGTAAT
AATAAAAGCCATGTACAGAGGGAAA

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FIGURE 1978

MAQETNQTTPGPMLCSTGCGFYGNPRTNGMCSVCYKEHLQRQQNSGRMSPMG TASGSNSPTSDSASVQRADTSLNN
CEGAAGSTSEKSRNVPVAALPVTQQMTEMSISREDKITTPKTEVSEPVVTQPSPSVSQPSTSQSEEKAPELPKPK
KNRCFMCRRKKVGLTGFDRCGNLFCGLHRYSDKHNCPTYDYKAEAAAKIRKENPVVVAEKIQRI

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FIGURE 1979

TGAAAAATAAGGATTTTTGAAAGAATTATACCAATTAAAAATTATTAAAGGCAAACATAGAATTCATAAAAAATGTC
CAAAG**TAG**AAATGATGACCTATAATTTGGAGCATTTCCAATTCAGTAATTTCAATTTTGCTCTTGAAAACATTTA
ATATATATCCAAGACTGACATTTCTTTAGCTGAACCTAACGTTTGGGTCTCTGAGTGAATTTATAATAACTCCTT
CCTTCCTTAGCATAGGGTTTTCAAATTTGATTTATAATTCCTATTTCCAGTAAATATTGTTCAATTTGTCCACAT
CTCTCCCTATGATATGTTGCTGGAGGTAAGAATTTCTTTTCATATTCCTATTTTTTTTTTTCCCATAGACTAGGCT
CATAGAATTTAAACAAGCAAATTTTCTGAGCTTTTTCTTGCCAAATGAAAGAAGACTGGTAAATTCTCATAGAG
AGGTTTGTGTAGTTCTTGGCTCTTCTGGGGTTAATGTGCTTATATTCACAGTGGCAAATTGGTCTCAGACTTTA
ATTTATTTATTTTGAATTTCTCTTTAAAGTATCAATTTAAAAGGTAAGTAAATTATTTCTTTCTCATT
TTCAAAAGTGATTTTTGCATTATTAAATTTCCCTGCCATTGTAATGCCATTTACGCAGAAAAAAGTCAGCCAG
TAATTAAGAAAAAAGTGATGGAGATTAAGTAGTATTTTGGCTTATTTTTAGGACTCATCATGAGAAGACACAGT
TCCTTTAATCAGGAAATTAATATCCATAATTTTCACTCAAAATGCAGTATGTAAAGCAGATTCTCAAAAACCTCT
CCTGAACACTTATTTATATATATGTTTTATATAAGTAAAAATTTTCTCATATTTTTATACGATATGNNNNNNNN
NNNNNNNNNNNNNNNNNTACTTACTACATGTTCTGTACTTGTACTTTGTACCATGCATATTCAAATGTTTATATA
CATAAGTTTATTATAACATAAACAGTAAAAGTAATGAATACTGTTTAAATAACTAATATAGTATTTTTTAATTT
TTGTGGGGATGGATTCTCAAATACTTGTGATTTTAAAGATTCTAAAGCTAAAACACAACCTTGATTTTTAAAAAGA
ATGATTCTCCTTACACAATTATAAATATTTGCAGTAAATATTTTCTTATAATACTGTTTTGACCCCATTTAAAA
AGTATTAGATTATATTCCTTTGATCCAATGAAAACCTGAACCTTATAAATGGTTAGCTGAAAGTAGACCTTATTCT
TGTCTTCTTTAGAAGAGTAAAGATTTGTCTAGGGAAGATGGCTGACTTCGGTTCCCAACATGCGTATGCATTT
AGACTGTAGCTCCTCAGCCCTGTGGACACAAAATTTGGACAGCTTATTAGGTTACGTTAGCAATGCATGACGGTT
TCTCCAACACTAAGATATTCACGTTGAAACAGATTTTCTGTTCTGCTTATGTGTCTGGTAAAATTGTTTCCCCAA
TTACAATTTGACATATCAATAGAGGGTTAACAAGAGTATAAATTACATAACAGAATTCCTCATGAACGTGAATCAG
TCTACAGGAAAAATCATTATTTTATCTTGATTTGCAGATGAATATACTGCTAAGAAAGGGAGCAACTCTGACCTTT
GTTAAAGTTGATCTTTTGTAATTGAGGTATAAGGTATGAAAAGATAAAAAACCGAAGGCCAGAGAATCAGGAAAT
GAAAGATAGTATGGACTGAAGGTAACAATATTTTAAATGTTATGCAATATAGCCAGAGAAATATTAATAAATTAGTT
GTTTGCTGTGCATAGGTGGATCTCGCAGGAAGCTAATGAAACCTAAGCTTCAGTGCCTCTCACTTAGACATGTTT
CATTCGAGGTCTGAACCTAACCTTTGTATTAGGAATTCGTACTAATTTTGTTGAAGAAGACCAGCAAAGTTGTG
TACACTTCTACCCCCACAAAATCTGCATTGTCCATGTGAGTAAAGTAAAAATAATTCCTGTTATTTTTTTCTGTGA
GAAATAAGTATGGAGGATATGTTTTTAAAAATTTATGAGTTAATTGAAATATCCATATATAACAAGTGACTTTCT
CACAATATATATGATGTGATATATAGGGAGATAGTTTCACCTTCATCATATTTTATACGTTGATTCTGAACTATA
GAAAAATAATAAATGGGATTTTAATTATAGCTCTTAGTTGGGAAAGAAATATAGAGAGATGTGGGATTTGAATGC
CCATGAAAGACATTTTATTTTACTTGAATATATTCTTGCTTCACTTTACCTCCATAATATGTTGTACATTAGTG
CTGATCAAGTTTACAGAGTTACATTTTGCTTTCTAACCATTCACTCAGTCAGGAATTAATAATGTCATTGTATAACA
ACTGGGAAGAAGCTCATAGTGGATATAAATTAGAGTAGATAATGGGTCACCTTGATAGCCTCTGTTTACATTACT
TGTATATGGGCAAAATAATTATTACCTATACGTGTATTTAAGCTTAATTTTCATATAAACAGTATTTTTAATCTA
TGTTAAATAGATAATATCTAAAAGTGTGATCTCTAGGTAGTCCTTAGTTTATTAGTACTGTACTTCAAAAAGAT

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FIGURE 1980

KIRIFERIIPIKIIKGKHRIHKKCPK

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FIGURE 1981

GGCACGAGGGGAACGCTCCGTCTGGAACGGCGCAGGTCCCAGCAGCTGGGGTTCCCCCTCAGCCCCTGAGCAGCC
ATGTCCAACCCAGCGCCCCACCACCATATGAAGACCGCAACCCCTGTACCCAGGCCCTCTGCCCCCTGGGGGC
TATGGGCAGCCATCTGTCTGCCAGGAGGGTATCCTGCCTACCCTGGCTACCCGAGCCTGGCTACGGTCACCCCT
GCTGGCTACCCACAGCCCATGCCCCCACCACCCGATGCCCATGAACTACGGCCCAGGCCATGGCTATGATGGG
GAGGAGAGAGCGGTGAGTGATAGCTTCGGGCCTGGAGAGTGGGATGACCGGAAAGTGCGACACACTTTTATCCGA
AAGGTTTACTCCATCATCTCCGTGCAGCTGCTCATCACTGTGGCCATCATTGCTATCTTCACCTTTGTGGAACCT
GTCAGCGCCTTTGTGAGGAGAAATGTGGCTGTCTACTACGTGTCTATGCTGTCTTCGTTGTCACCTACCTGATC
CTTGCCCTGCTGCCAGGGACCCAGACGCCGTTTCCCATGGAACATCATTCTGCTGACCCCTTTTACTTTTGCCATG
GGCTTCATGACGGGCACCATTTCCAGTATGTACCAAACCAAAGCCGTCATCATTGCAATGATCATCACTGCGGTG
GTATCCATTTAGTCACCATCTTCTGCTTTCAGACCAAGGTGGACTTCACCTCGTGACAGGCCCTTCTGTGTCTC
CTGGGAATTGTGCTCCTGGTGACTGGGATTGTCACTAGCATTGTGCTCTACTTCCAATACGTTTACTGGCTCCAC
ATGCTCTATGCTGCTCTGGGGGCCATTTGTTTACCCTGTTTCTGGCTTACGACACACAGCTGGTCTGGGGAAC
CGGAAGCACACCATCAGCCCCGAGGACTACATCACTGGCGCCCTGCAGATTTACACAGACATCATCTACATCTTC
ACCTTTGTGCTGCAGCTGATGGGGGATCGCAATTAAGGAGCAAGCCCCCATTTTACCCGATCTGGGCTCTCCC
TTCCAAGCTAGAGGGCTGGGCCCTATGACTGTGGTCTGGGCTTTAGGCCCTTTCCCTTCCCCTTGAGTAACATGC
CCAGTTTCCTTTCTGTCTGGAGACAGGTGGCCTCTCTGGCTATGGATGTGTGGGTACTTGGTGGGGACGGAGGA
GCTAGGGACTAACTGTTGCTCTTGGTGGGCTTGGCAGGGACTAGGCTGAAGATGTGTCTTCTCCCCGCCACCTAC
TGTATGACACCACATTCTTCTAACAGCTGGGGTTGTGAGGAATATGAAAAGAGCCTATTGATAGCTAGAAGGG
AATATGAAAGGTAGAAGTGACTTCAAGGTCACGAGGTTCCCCTCCCACCTCTGTACAGGCTTCTTGACTACGTA
GTTGGAGCTATTTCTTCCCCAGCAAAGCCAGAGAGCTTTGTCCCCGGCCTCCTGGACACATAGGCCATTATCCT
GTATTCCTTTGGCTTGGCATCTTTTAGCTCAGGAAGGTAGAAGAGATCTGTGCCCATGGGTCTCCTTGCTTCAAT
CCCTTCTTGTTCAGTGACATATGTATTGTTTATCTGGGTTAGGGATGGGGGACAGATAATAGAACGAGCAAAGT
AACCTATACAGGCCAGCATGGAACAGCATCTCCCCTGGGCTTGCTCCTGGCTTGTGACGCTATAAGACAGAGCAG
GCCACATGTGGCCATCTGCTCCCCATTCTTGAAAGCTGCTGGGGCCTCCTTGACAGGCTTCTGGATCTCTGGTCAG
AGTGAACCTCTTGCTTCCTGTATTACAGCAGCTCAGAGCAGAAAGTAAGGGGCAGAGTCATACGTGTGGCCAGGAA
GTAGCCAGGGTGAAGAGAGACTCGGTGCGGGCAGGGAGAATGCCTGGGGGTCCCTCACCTGGCTAGGGAGATACC
GAAGCCTACTGTGGTACTGAAGACTTCTGGGTTCTTTCCCTTCTGCTAACCAGGGAGGGTCTTAAGAGGAAGGTG
ACTTCTCTCTGTTTGTCTTAAGTTGCACTGGGGGATTCTGACTTGAGGCCCATCTCTCCAGCCAGCCACTGCCT
TCTTTGTAATATTAAGTGCCTTGAGCTGGAATGGGGAAGGGGGACAAGGGTCAGTCTGTGCGGTGGGGGCAGAAA
TCAAATCAGCCCAAGGATATAGTTAGGATTAATTACTTAATAGAGAAATCCTAACTATATCACACAAAGGGATAC
AACTATAAATGTAATAAAATTTATGTCTAGAAGTTAAACCCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1982

MSNPSAPPPYEDRNPLYPGPLPPGGYGQPSVLPGGYPAYPGYPQPGYGHPAGYPQPMPPTHPMPMNYGPGHGYDG
EERAVSDSFSGPEWDDRKVRHTFIRKVYSIISVQLLITVAIIAIFTFVEPVSAFVRRNVAVYYVSYAVFVVTYLI
LACCQGPRRRFPWNIILLTLFTFAMGFMTGTISSMYQTKAVIIAMIITAVVSISVTIFCFQTKVDFTSCTGLFCV
LGIVLLVTGIVTSIVLYFQYVYWLHMLYAALGAICFTLFLAYDTQLVLGNRKHTISPEDYITGALQIYTDIIYIF
TFVLQLMGDRN

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FIGURE 1983

GAAAGGTCACAGCGCGGCAGCGGGTCTGGCTGGCGGCAGCGGCGGGAGGGAGCCGAGAGACCCGAGTGCACGTGT
GGAGAAGCGGCGGCACAAGCGCGGCGGGGAGACACTCCCGCCCCACCAGACTCAAGCCCTCAGTCTGACTCTC
GCGGCCTTCGTTGCTCGCACAGCTCCCTGCCAGGCTAGGAGGCCGGCTTGCGGGGGTTGAGTGGCCCCGAGCTAAG
GGTGC GGAGACCTAAGGGCGGCGACTACGACGGCGTTGATATCGGTGGTAACGACGGCCTCAGCAGGCCGGGAAG
ATGAAGGTAGCCGGATCGAGCTGGGAGATGTGACACCACACAATATTAAACAGTTGAAAAGATTGAATCAGGTC
ATCTTTCCAGTCAGCTACAATGACAAGTTCTACAAGGATGTGCTGGAGGTTGGCGAGCTAGCAAACTTGCCTAT
TTCAATGATATTGCTGTAGGTGCAGTATGCTGTAGGGTGGATCATTACAGAATCAGAAGAGACTTTACATCATG
ACACTAGGATGTCTGGCACCTTACCGAAGGCTAGGAATAGGAATAAAATGTTAAATCATGTCTTAAACATCTGT
GAAAAAGATGGTACTTTTGACAACATTTATCTGCATGTCCAGATCAGCAATGAGTCGGCAATTGACTTCTACAGG
AAGTTTGGCTTTGAGATTATTGAGACAAAAGAAGAACTACTATAAGAGGATAGAGCCCGCAGATGCTCATGTGCTG
CAGAAAAACCTCAAAGTTTCTTCTGGTCAGAATGCAGATGTGAAAAGACAGACAAC**TGA**ACAAATTACAAATGA
ACTTTCTTGCACTTGCTTGTGCGCAATAAAAGAGAGGCCCATTTGATTCTCCCCACCCCAACACTTTTCTTTT
AAAGCTTTTCTCCCTCCTTGTCTTGTCTTTTCTTTCTTCTTCTTCTTCTGAGAGTTTAACTTTTCAAGG
ACTTTAAAAAATAATCATGTTTGAATTGTTTTCTTATTTTTGTGAGGTGGTTTGAAGGAAGGACAAGGTAGA
TCTGTTTAGTTTTCAGTTGAAGTTAGATGGTCCTAAACATTTAATTGTCAAATAATTTCAAATTTAATGCTCTG
CTTTCACATTGAAGGGCAGAGCCTACAAAACATTGTATATTTCAAAGACAAAAAGAAGCAGCAGCAGTATCTTG
TTCTCTAATTCATAGACAAGTTGAGTGTGTTTGTGGTACTTTGGGTTTTTAAACACTTTGGGATACTAATCCCTA
GACATTGCCCTTCACTCCACCTTTAGTCCTTCTGAGCACTCTCTCGGGAGTTGGAACATTGTTATCCTTGTAAAGAA
ATACTAAGCTTATGTTGATTTTTTAAGTAATTATATCTTCTCTTCTTGTGTTGGTGGGTTGGGCGAGTTTGGTTTAGTG
TTATACTTTGGTCTAAGTATTTGAGTTAACTGCTTTTTTGTCTAATGAGTGGGCTGGTTGTTAGCAGGTTTGT
TTCCTGCTGTTGATTGTTACTAGTGGCATTAACTTTTAGAATTTGGGCTGGTGAGATTAATTTTTTTTAAATATCC
CAGCTAGAGATATGGCCTTTAACTGACCTAAAGAGGTGTGTTGTGATTTAATTTTTTCCCGTTCCTTTTTCTTCA
GTAAACCCAACAATAGTCTAACCTTAAAAATGAGTTGATGTCTTATAGGTCCTACTACCCCTAAATAAACCTGAA
GCAGGTGTTTTCTCTTGGACATACTAAAAAATACCTAAAAGGAAGCTTAGATGGGCTGTGACACAAAAAATTCAA
TTACTGTCTAATGCCAGCTGTATAAAGTGTGGCCACTGAGCATTGATTTTATAGGAAAAAATAGTATTTTT
GAGAATAACATAGCTGTGCTATTGCACATCTGTTGGAGGACATCCAGATTGCTTATACTCAGTGCCTGTGATA
TTGAGTTTAAAGGATTTGAGGCAGGGGTAATTATTAACATATTGCTTCTATTCTTGGAAAAATAGAAGTGTA
TGTTAATAATACAAATGTCACTGTGACCTCCTCCACTGTGAGGACTGGTTTATGCCAGATCATTTTCCGGCACAC
ACGGAGTGGCTTTGACAGATTGATACTTTGTAAGATGGGAGACATCTGAAATATTCATGTTTCTCTTTGTAGT
CCCATCTCCACTATTTAGAAATGTTCTCAGACTTTAAATAATGCACAGGGCTTGAGCTTCTGTCACTTTGACTT
TAAAAGGAAGTTTCATTCAATTTATCCTCTTATGTAAAATTGCGGTATAAAGTCTCATTTCCAAATATGTTAAA
TGACAAAATTATTTTATAAAATGTTTATGCACACTTTATAACCTTAAGTTTTTATTTGAGAATGTGAAAGTACAA
AGTGCAGTAGACTTCAACAATCTTGAGTGCCAAGAATAACAGAAAAAGAAGACAGTTGATGAATGAGTTTATA
GGGTCTAATCTTAAGATGGTAAAAATGTAGAAAAGACCTTGCTGGTTTTTTGGGGGTATTCGTTTCTTAAACAAT
CCAAATCTAAGCTTAGAAGAAAAGTTTAGCGTTAAGCACCTTTATCTTCATGAATAAGCTTCAGCTTGCTCTTG
CAAGAGAAGAGTGCTTGAGTTACAGAAGGCATAAGTAGTTTGAAGAATGCAGCAGCCTTTTTGTAAACTTCCCAG
ATATCAAAATAGACTTTGATATATAAATGGTTTTCTGAGATGACACTGCCTCTATTTCTATAACCATTTACCTG
GACTATCTAACCAGTCTATGAATGTATCCCTAAATGTGGTTATTGAAAACCTAATAGCTGCCTCATGACAAGTA
CATGTTATTTAAGGAGGAAAAAATATTAATTTTTGAATTGAGTGTGTAGGCTCCCTATCATTATATATAGAGTTT
CTTTTTCCACGGTAGTCAGTGAATTAACCTGAATTGTAAATGTTTGTAAAGGGTTAATTGTCTTACATCAAACCTT
AGTTAAATAATTCCATCCACTTATGGAGGAGGAGGAGAAATGTGGAAGAGGTAAAAAGCTGGGCACAAGTTCATAT
GCCTATGAGTCAGTAAAGACTGAAGTAATGTCTATGTTGAGCTGGTTATTTTGATATATGATAATAATTATCTT
TGAAGTAGAACAATTCTGTTAACTGGAAAAATCACAGGATATATCCATCATATTTTTTCAGGACAGATAGTTTTTAC
TGTGGGGCAAATAGGTTAAATTAACACTATGTTAGTTGCATTTAGGTTTTAAAGCAAAGAATCTGTAGAGAAATC
TATGCAATATATAGTTTGTCCAGATTAGCTTTCATTTGGGGAATGAAGTTCTGAAATATCTAAAGCAGTTTACTC
ATCAATTGAAAAGTCTCCAAAAAGAGAACTATTGGGAAACCATGGTGTGGTGGTGGAAAAGAAAAGCTCCCTCA
GTTTTTGGAGGGAATAACTTAAAAAATACTTAAATGGCTAAGTTTACTTGGTGCAGTTAAGAATTAACTTGT
CAATTTTAACATTGCTGTTACATCTGAAATAAACTTATGTGATGTTCTGGT

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FIGURE 1984

MKGSRIELGDVTPHNIKQLKRLNQVIFPVSYNDKFYKDVLEVGE
LAKLAYFNDIAVGAVCCRVDHSQNQKRLYIM
TLGCLAPYRRLGIGTKMLNHVLNICEKDGTFDNIYLHVQISNE
SAIDFYRKFGFEIIETKKNYKRIEPADAHVL
QKNLKVPESGQNADVQKTDN

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FIGURE 1985A

GCTACAATCCATCTGGTCTCCTCCAGCTCCTTCTTTCTGCAAC**AT**GGGGAAGAACAACAACTCCTTCATCCAAGTCT
GGTTCTTCTCCTCTTGGTCCTCCTGCCACAGACGCCTCAGTCTCTGGAAAACCGCAGTATATGGTTCTGGTCCC
CTCCCTGCTCCACACTGAGACCACTGAGAAGGGCTGTGTCTTCTGAGCTACCTGAATGAGACAGTGAAGTAAAG
TGCTTCCTTGAGTCTGTGAGGGGAAAACAGGAGCCTCTTCACTGACCTGGAGGCGGAGAAATGACGTACTCCACTG
TGTCGCCTTCGCTGTCCCAAAGTCTTCATCCAATGAGGAGGTAATGTTCTCACTGTCCAAGTGAAAGGACCAAC
CCAAGAATTTAAGAAGCGGACCACAGTGATGGTTAAGAACGAGGACAGTCTGGTCTTTGTCCAGACAGACAAATC
AATCTACAAACCAGGGCAGACAGTGAAATTTCTGTGTGTCTCCATGGATGAAAACCTTTCACCCCTGAATGAGTT
GATTCCACTAGTATACATTGAGGATCCCAAAGGAAATCGCATCGACAATGGCAGAGTTTCCAGTTAGAGGGTGG
CCTCAAGCAATTTTCTTTTCCCTCTCATCAGAGCCCTTCCAGGGCTCCTACAAGGTGGTGGTACAGAAGAAATC
AGGTGGAAGGACAGAGCACCCCTTTCACCGTGGAGGAATTTGTTCTTCCCAAGTTTGAAGTACAAGTAACAGTGCC
AAAGATAATCACCATCTTGAAGAAGAGATGAATGTATCAGTGTGTGGCCTATACACATATGGGAAGCCTGTCCC
TGGACATGTGACTGTGAGCATTTCAGAAAAGTATAGTGACGCTTCCGACTGCCACGGTGAAGATTCACAGGCTTT
CTGTGAGAAATTCAGTGGACAGCTAAACAGCCATGGCTGCTTCTATCAGCAAGTAAAAACCAAGGTCTTCCAGCT
GAAGAGGAAGGAGTATGAAATGAAACTTCACACTGAGGCCAGATCCAAGAAGAAGGAACAGTGGTGGAAATTGAC
TGGAAGGCAGTCCAGTGAAATCACAAGAACCATAACCAAACTCTCATTTGTGAAAGTGGACTCACACTTTCGACA
GGGAATTCCTTCTTTGGGCAGGTGCGCCTAGTAGATGGGAAAGGCGTCCCTATACCAATAAAGTCATATTTCAT
CAGAGGAAATGAAGCAAACCTATTACTCCAATGCTACCACGGATGAGCATGGCCTTGTACAGTTCTCTATCAACAC
CACCAACGTTATGGGTACCTCTCTTACTGTTAGGGTCAATTACAAGGATCGTAGTCCCTGTTACGGCTACCAGTG
GGTGTGAGAAGAACACGAAGAGGCACATCACACTGCTTATCTTGTGTTCTCCCCAAGCAAGAGCTTTGTCCACCT
TGAGCCCATGTCTCATGAACTACCTGTGGCCATACTCAGACAGTCCAGGCACATTATATTCTGAATGGAGGCAC
CCTGCTGGGGCTGAAGAAGCTCTCCTTTTATTATCTGATAATGGCAAAGGGAGGCATTGTCCGAACTGGGACTCA
TGGACTGCTTGTGAAGCAGGAAGACATGAAGGGCCATTTTTCATCTCAATCCCTGTGAAAGTCAGACATTGCTCC
TGTCGCTCGGTTGCTCATCTATGCTGTTTTACCTACCGGGGACGTGATTGGGGATTCTGCAAAAATATGATGTTGA
AAATTGTCTGGCCAACAAGGTGGATTTGAGCTTCAGCCCATCACAAAGTCTCCAGCCTCACACGCCCACCTGCG
AGTCACAGCGGCTCCTCAGTCCGTCTGCGCCCTCCGTGCTGTGGACCAAGCGTGCTGCTCATGAAGCCTGATGC
TGAGCTCTCGGCGTCTCGGTTTACAACCTGCTACCAGAAAAGGACCTCACTGGCTTCCCTGGGCCTTTGAATGA
CCAGGACGATGAAGACTGCATCAATCGTCATAATGTCTATATTAATGGAATCACATATACTCCAGTATCAAGTAC
AAATGAAAAGGATATGTACAGCTTCCCTAGAGGACATGGGCTTAAAGGCATTACCAACTCAAAGATTCTGTAAACC
CAAAATGTGTCCACAGCTTCAACAGTATGAAATGCATGGACCTGAAGGTCTACGTGTAGGTTTTTATGAGTCAGA
TGTAATGGGAAGAGGCCATGCACGCCTGGTGCATGTTGAAGAGCCTCACACGGAGACCGTACGAAAGTACTTCCC
TGAGACATGGATCTGGGATTTGGTGGTGGTAAACTCAGCAGGGGTGGCTGAGGTAGGAGTAACAGTCCCTGACAC
CATCACCGAGTGAAGGCAGGGGCCCTTCTGCCTGTCTGAAGATGCTGGACTTGGTATCTCTTCCACTGCCTCTCT
CCGAGCCTTCCAGCCCTTCTTTGTGGAGCTTACAATGCCTTACTCTGTGATTCTGTGGAGAGGCCTTCACACTCAA
GGCCACGTCCTAAACTACCTTCCCAAATGCATCCGGGTGAGTGTGCAGCTGGAAGCCTCTCCCGCCTTCCCTTGC
TGTCCCAGTGGAGAAGGAACAAGCGCCTCACTGCATCTGTGCAAACGGGCGGCAAACCTGTGTCTTGGGCAGTAAC
CCCAAAGTCATTAGGAAATGTGAATTTCACTGTGAGCGCAGAGGCACTAGAGTCTCAAGAGCTGTGTGGGACTGA
GGTGCCTTCAGTTCTGAACACGGAAGGAAAGACACAGTCATCAAGCCTCTGTTGGTTGAACCTGAAGGACTAGA
GAAGGAAACAACATTCAACTCCCTACTTTGTCCATCAGGTGGTGAAGTTTCTGAAGAATTATCCCTGAAACTGCC
ACCAAATGTGGTAGAAGAATCTGCCCAGCTTCTGTCTCAGTTTTGGGAGACATATTAGGCTCTGCCATGCAAAA
CACACAAAATCTTCTCCAGATGCCCTATGGCTGTGGAGAGCAGAATATGGTCCTCTTTGCTCCTAACATCTATGT
ACTGGATTATCTAAATGAAACACAGCAGCTTACTCCAGAGGTCAAGTCCAAGGCCATTGGCTATCTCAACACTGG
TTACCAGAGACAGTTGAACTACAAACACTATGATGGCTCCTACAGCACCTTTGGGGAGCGATATGGCAGGAACCA
GGGCAACACCTGGCTCACAGCCTTTGTTCTGAAGACTTTTGCCCAAGCTCGAGCCTACATCTTCATCGATGAAGC
ACACATTACCCAAGCCCTCATATGGCTCTCCAGAGGCAGAAGGACAATGGCTGTTTTCAGGAGCTCTGGGTCACT
GCTCAACAATGCCATAAAGGGAGGAGTAGAAGATGAAGTGACCCTCTCCGCCTATATCACCATCGCCCTTCTGGA
GATTCTCTCACAGTCACTCACCTGTTGTCCGCAATGCCCTGTTTTGCCTGGAGTCAGCCTGGAAGACAGCACA
AGAAGGGGACCATGGCAGCCATGTATATACCAAAGCACTGCTGGCCTATGCTTTTGCCTGGCAGGTAACCAGGA
CAAGAGGAAGGAAGTACTCAAGTCACTTAATGAGGAAGCTGTGAAGAAAGACAACCTCTGTCCATTGGGAGCGCCC

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FIGURE 1985B

TCAGAAACCCAAGGCACCAGTGGGGCATTTTTACGAACCCCAGGCTCCCTCTGCTGAGGTGGAGATGACATCCTA
TGTGCTCCTCGCTTATCTCACGGCCCAGCCAGCCCCAACCTCGGAGGACCTGACCTCTGCAACCAACATCGTGAA
GTGGATCACGAAGCAGCAGAATGCCCAGGGCGGTTTCTCCTCCACCCAGGACACAGTGGTGGCTCTCCATGCTCT
GTCCAAATATGGAGCCGCCACATTTACCAGGACTGGGAAGGCTGCACAGGTGACTATCCAGTCTTCAGGGACATT
TTCCAGCAAATTCCAAGTGGACAACAACAATCGCCTGTTACTGCAGCAGGTCTCATTGCCAGAGCTGCCTGGGGA
ATACAGCATGAAAGTGACAGGAGAAGGATGTGTCTACCTCCAGACCTCCTTGAAATACAATATTCTCCCAGAAAA
GGAAGAGTTCCCCTTTGGCTTTAGGAGTGCAGACTCTGCCTCAAACCTTGTGATGAACCCAAAGCCCACACCAGCTT
CCAAATCTCCCTAAGTGTGAGTTACACAGGGAGCCGCTCTGCCTCCAACATGGCGATCGTTGATGTGAAGATGGT
CTCTGGCTTCATTCCCCCTGAAGCCAACAGTGAAAATGCTTGAAAGATCTAACCATGTGAGCCGGACAGAAGTCAG
CAGCAACCATGTCTTGATTTACCTTGATAAGGTGTCAAATCAGACACTGAGCTTGTTCTTCACGGTTCTGCAAGA
TGTCACAGTAAGAGATCTCAAACCAGCCATAGTGAAAGTCTATGATTACTACGAGACGGATGAGTTTGCAATCGC
TGAGTACAATGCTCCTTGACAGCAAAGATCTTGAAATGCTTGAAGACCACAAGGCTGAAAAGTGCTTTGCTGGAG
TCCTGTTCTCTGAGCTCCACAGAAGACACGTGTTTTTGTATCTTTAAAGACTTGATGAATAAACACTTTTTCTGG
TC

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FIGURE 1986

MGKNKLLHPSLVLLLLLVLLPTDASVSGKPQYMVLVPSLLHTETTEKGCVLLSYLNETVTVSASLESVRGNRSLFT
DLEAENDVLHCVAFAPKSSSNEEVMFLTVQVKGPTQEFKKRTTVMVKNEDSLVFVQTDKSIYKPGQTVKFRVVS
MDENFHPNLNELIPLVYIQDPKGNRIAQWQSFQLEGGGLKQFSFPLSSEPFQGSYKVVVQKKSGGRTEHPFTVEEFV
LPKFEVQVTVPKIITILEEEMNVSVCGLYTYGKPVPGHVTVSICRKYS DASDCHGEDSQAFCEKFSGQLNSHGCF
YQQVKTKVFQLKRKEYEMKLHTEAQIQEEGTVVELTGRQSSEITRTITKLSFVKVDSHFQGIPIFFGQVRLVDGK
GVPIPNKVIFIRGNEANYYSNATDEHGLVQFSINTTNVMGTSLTVRVNYKDRSPCYGYQWVSEEHEEAHHTAYL
VFSPSKSFVHLEPMSHELPCGHTQTVQAHYILNGGTLGLKKLSFYLLIMAKGGIVRTGTHGLLVKQEDMKGHFS
ISIPVKSDIAPVARLLIYAVLPTGDVIGDSAKYDVENCLANKVDLSFSPSQSLPASHAHLRVTAAPQSVCALRAV
DQSVLLMKPDAELSASSVYNLLPEKDLTGFPGLNDQDDEDCINRHNVIYINGITYTPVSSTNEKDMYSFLEDMGL
KAFTNSKIRKPKMCPQLQQYEMHGPEGLRVGFYESDVMGRGHARLVHVEEPHTETVRKYFPETWIWDLVVVNSAG
VAEVGVTVPDTITTEWKAGAFCLSEDAGLGISSTASLRAFQPPFFVELTMPYSVIRGEAFTLKATVLNLYPKCIRVS
VQLEASPAFLAVPVEKEQAPHICANGRQTVSWAVTPKSLGNVNFTVSAEALESQELCGTEVPSVPEHGRKDTV
KPLLVEPEGLEKETTFNSLLCPSGGEVSEELSLKLPPNVVEESARASVSVLGDILGSAMQNTQNLQMPYGCGEQ
NMVLFAPNIYVLDYLNQQLTPEVKSKAIGYLNQYQRLNYKHYDGSYSTFGERYGRNQNTWLTAFLVLTFA
QARAYIFIDEAHITQALIWLSQRQKDNCGFRSSGSLNNAIKGGVEDEVTL SAYITIALLEIPLTVTHPVVRNAL
FCLESARKTAQEGDHGSHVYTKALLAYAFALAGNQDKRKEVLKSLNEEAVKKDNSVHWERPQKPKAPVGHFYEPQ
APSAEVEMTSYVLLAYLTAQPAPTSDELTSATNIVKWITKQONAQQGFSSTQDTVVALHALSKYGAATFTRTGKA
AQVTIQSSGTFSSKFQVDNNNRLLQVSLPELPGEYSMKVTGEGCVYLQTSCLKYNILPEKEEFPFALGVQTLPO
TCDEPKAHTSFQISLSVSYTGSRASNMAIVDVKMVSGFIPLKPTVKMLERSNHVSRTEVSSNHVLIYLDKVSNO
TSLFFFTVLQDVPVRDLKPAIVKVYDYYETDEFIAEYNAPCSKDLGNA

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FIGURE 1987A

CTCCTCCCCATCCTCTCCCTCTGTCCCTCTGTCCCTCTGACCCTGCACTGTCCCAGCACCC**ATG**GGACCCACCTCA
GGTCCCAGCCTGCTGCTCCTGCTACTAACCCACCTCCCCCTGGCTCTGGGGAGTCCCATGTACTCTATCATCACC
CCCAACATCTTGCGGCTGGAGAGCGAGGAGACCATGGTGCTGGAGGGCCACGACGCGCAAGGGGATGTTCCAGTC
ACTGTTACTGTCCACGACTTCCCAGGCAAAAACTAGTGCTGTCCAGTGAGAAGACTGTGCTGACCCCTGCCACC
AACCACATGGGCAACGTCACTTCACGATCCCAGCCAACAGGGAGTTCAAGTCAGAAAAGGGGCGCAACAAGTTC
GTGACCGTGACAGGCCACCTTCGGGACCCAAGTGGTGAGAAAGTGGTGCTGGTCAGCCTGCAGAGCGGGTACCTC
TTCATCCAGACAGACAAGACCATCTACACCCCTGGCTCCACAGTTCTCTATCGGATCTTCACCGTCAACCACAAG
CTGCTACCCGTGGGCGGACGGTCATGGTCAACATTGAGAACCCGGAAGGCATCCCGGTCAAGCAGGACTCCTTG
TCTTCTCAGAACCAGCTTGGCGTCTTGCCCTTGCTTGGGACATTCCGGAACCTCGTCAACATGGGCCAGTGGAAG
ATCCGAGCCTACTATGAAAACCTACCCACAGCAGGTCTTCTCCACTGAGTTTGAGGTGAAGGAGTACGTGCTGCCC
AGTTTCGAGGTATAGTGGAGCCTACAGAGAAATTCTACTACATCTATAACGAGAAGGGCCTGGAGGTACCATC
ACCGCCAGGTTCTCTACGGGAAGAAAGTGGAGGGAAGTGCCTTTGTATCTTCGGGATCCAGGATGGCGAACAG
AGGATTTCCCTGCCTGAATCCCTCAAGCGCATTCGATTGAGGATGGCTCGGGGGAGGTTGTGCTGAGCCGGAAG
GTACTGCTGGACGGGGTGCAGAACCTCCGAGCAGAAGACCTGGTGGGGAAGTCTTTGTACGTGTCTGCCACCGTC
ATCTTGCACTCAGGCAGTGACATGGTGACGGCAGAGCGCAGCGGGATCCCCATCGTGACCTCTCCCTACCAGATC
CACTTCACCAAGACACCCAAGTACTTCAAACCAGGAATGCCCTTTGACCTCATGGTGTTTCGTGACGAACCCTGAT
GGCTCTCCAGCCTACCGAGTCCCCGTGGCAGTCCAGGGCGAGGACACTGTGCAGTCTCTAACCCAGGGAGATGGC
GTGGCCAAACTCAGCATCAACACACACCCCGAGCCAGAAGCCCTTGAGCATCACGGTGCGCACGAAGAAGCAGGAG
CTCTCGGAGGCAGAGCAGGCTACCAGGACCATGCAGGCTCTGCCCTACAGCACCGTGGGCAACTCCAACAATTAC
CTGCATCTCTCAGTGCTACGTACAGAGCTCAGACCCGGGGAGACCCTCAACGTCAAACTTCCTCCTGCGAATGGAC
CGCGCCCACGAGGCCAAGATCCGCTACTACACCTACCTGATCATGAACAAGGGCAGGCTGTTGAAGGCGGGACGC
CAGGTGCGAGAGCCCGGCCAGGACCTGGTGGTGCTGCCCTGTCCATCACCAACCGACTTCATCCCTTCCTTCCGC
CTGGTGGCGTACTACACGCTGATCGGTGCCAGCGGCCAGAGGGAGGTGGTGGCCGACTCCGTGTGGGTGGACGTC
AAGGACTCCTGCGTGGGCTCGCTGGTGGTAAAAAGCGGCCAGTCAGAAGACCGGCAGCCTGTACCTGGGCAGCAG
ATGACCCTGAAGATAGAGGGTGACCACGGGGCCCGGGTGGTACTGGTGGCCGTGGACAAGGGCGTGTTCGTGCTG
AATAAGAAGAACAACCTGACGCAGAGTAAGATCTGGGACGTGGTGGAGAAGGCAGACATCGGCTGCACCCCGGGC
AGTGGGAAGGATTACGCCGGTGTCTTCTCCGACGCAGGGCTGACCTTCACGAGCAGCAGTGGCCAGCAGACCGCC
CAGAGGGCAGAACTTCAGTGCCCGCAGCCAGCCCGCCGCGACGCCGTTCCGTGCAGCTCACGGAGAAGCGAATG
GACAAAGTCGGCAAGTACCCCAAGGAGCTGCGCAAGTGCTGCGAGGACGGCATGCGGGAGAACCCCATGAGGTTT
TCGTGCCAGCGCCGACCCGTTTCATCTCCCTGGGCGAGGCGTGCAAGAAGGTCTTCTGGACTGCTGCAACTAC
ATCACAGAGCTGCGGCGGCAGCACGCGCGGGCCAGCCACCTGGGCCTGGCCAGGAGTAACCTGGATGAGGACATC
ATTGCAGAAGAGAACATCGTTTCCCGAAGTGAGTTCCAGAGAGCTGGCTGTGGAACGTTGAGGACTTGAAAGAG
CCACCGAAAAATGGAATCTCTACGAAGCTCATGAATATATTTTGAAGACTCCATCACACGTTGGGAGATTCTG
GCTGTGAGCATGTGCGACAAGAAAGGGATCTGTGTGGCAGACCCCTTCGAGGTACAGTAATGCAGGACTTCTTC
ATCGACCTGCGGCTACCCCTACTCTGTTGTTGAAACGAGCAGGTGGAATCCGAGCCGTTCTCTACAATTACCGG
CAGAACCAAGAGCTCAAGGTGAGGGTGGAATACTCCACAATCCAGCCTTCTGCAGCCTGGCCACCACCAAGAGG
CGTCACCAGCAGACCGTAACCATCCCCCAGTCCCTCGTTGTCCGTTCCATATGTCATCGTGCCGCTAAAGACC
GGCCTGCAGGAAGTGGAAGTCAAGGCTGCCGTCTACCATCATTTTCATCAGTGACGGTGTGAGGAAGTCCCTGAAG
GTCGTGCCGGAAGGAATCAGAATGAACAAAACCTGTGGCTGTTCGCACCCCTGGATCCAGAACGCCTGGGCCGTGAA
GGAGTGAGAAAGAGGACATCCACCTGCAGACCTCAGTGACCAAGTCCCGGACACCGAGTCTGAGACCAGAATT
CTCCTGCAAGGGACCCAGTGGCCAGATGACAGAGGATGCCGTGACGCGGAACGGCTGAAGCACCTCATTTGTG
ACCCCTCGGGCTGCGGGGAACAGAACATGATCGGCATGACGCCCACGGTCATCGCTGTGCATTACCTGGATGAA
ACGGAGCAGTGGGAGAAGTTGCGCCTAGAGAAGCGGCAGGGGGCCTTGAGGCTCATCAAGAAGGGGTACACCCAG
CAGCTGGCCTTCAGACAACCCAGCTCTGCCTTTGCGGCCCTTCGTGAAACGGGCACCCAGCACCTGGCTGACCGCC
TACGTGGTCAAGGTCTTCTCTCTGGCTGTCAACCTCATCGCCATCGACTCCCAAGTCTCTGCGGGGCTGTAA
TGGCTGATCCTGGAGAAGCAGAAGCCCGACGGGGTCTTCAGGAGGATGCGCCCGTGATACCAAGAAATGATT
GGTGGATTACGGAACAACAACGAGAAAGACATGGCCCTCACGGCCTTTGTTCTCATCTCGCTGCAGGAGGCTAAA
GATATTTGCGAGGAGCAGGTCAACAGCCTGCCAGGCAGCATCACTAAAGCAGGAGACTTCCTTGAAGCCAACCTAC

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FIGURE 1987B

ATGAACCTACAGAGATCCTACACTGTGGCCATTGCTGGCTATGCTCTGGCCCAGATGGGCAGGCTGAAGGGGCCT
CTTCTTAACAAATTTCTGACCACAGCCAAAGATAAGAACCGCTGGGAGGACCCTGGTAAGCAGCTCTACAACGTG
GAGGCCACATCCTATGCCCTCTTGGCCCTACTGCAGCTAAAAGACTTTGACTTTGTGCCTCCCGTCGTGCGTTGG
CTCAATGAACAGAGATACTACGGTGGTGGCTATGGCTCTACCCAGGCCACCTTCATGGTGTTCCAAGCCTTGGCT
CAATACCAAAGGACGCCCCCTGACCACCAGGAAGTGAACCTTGATGTGTCCCTCCAAGTGGCCAGCCGACAGCTCC
AAGATCACCCACCGTATCCACTGGGAATCTGCCAGCCTCCTGCGATCAGAAGAGACCAAGGAAAATGAGGGTTTC
ACAGTCACAGCTGAAGGAAAAGGCCAAGGCACCTTGTCGGTGGTGACAATGTACCATGCTAAGGCCAAAGATCAA
CTCACCTGTAATAAAATTCGACCTCAAGGTCACCATAAAACCAGCACCGGAAACAGAAAAGAGGCCTCAGGATGCC
AAGAACACTATGATCCTTGAGATCTGTACCAGGTACCGGGGAGACCAGGATGCCACTATGTCTATATTGGACATA
TCCATGATGACTGGCTTTGCTCCAGACACAGATGACCTGAAGCAGCTGGCCAATGGTGTTGACAGATACATCTCC
AAGTATGAGCTGGACAAAGCCTTCTCCGATAGGAACACCCTCATCATCTACCTGGACAAGGTCTCACACTCTGAG
GATGACTGTCTAGCTTTCAAAGTTCACCAATACTTTAATGTAGAGCTTATCCAGCCTGGAGCAGTCAAGGTCTAC
GCCTATTACAACCTGGAGGAAAGCTGTACCCGTTCTACCATCCGAAAAGGAGGATGGAAAGCTGAACAAGCTC
TGCCGTGATGAAGTGTGCCGCTGTGCTGAGGAGAATTGCTTCATACAAAAGTCGGATGACAAGGTCACCCCTGGAA
GAACGGCTGGACAAGGCCTGTGAGCCAGGAGTGGACTATGTGTACAAGACCCGACTGGTCAAGGTTTCACTGTCC
AATGACTTTGACGAGTACATCATGGCCATTGAGCAGACCATCAAGTCAGGCTCGGATGAGGTGCAGGTTGGACAG
CAGCGCACGTTTCATCAGCCCCATCAAGTGCAGAGAAGCCCTGAAGCTGGAGGAGAAGAAACACTACCTCATGTGG
GGTCTCTCTCCGATTTCTGGGGAGAGAAGCCCAACCTCAGCTACATCATCGGGAAGGACACTTGGGTGGAGCAC
TGGCCTGAGGAGGACGAATGCCAAGACGAAGAGAACCAGAAACAATGCCAGGACCTCGGCGCCTTCACCGAGAGC
ATGGTTGTCTTTGGGTGCCCCAACTGACCACACCCCCATTCC

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FIGURE 1988

MGPTSGPSLLLLLLTHLPLALGSPMYSIITPNILRLESEETMVLEAHDAQGDVPVTVTVHDFPGKKLVLSSEKTV
LTPATNHMGNVFTFTIPANREFKSEKGRNKFVTVQATFGTQVVEKVVLVSLQSGYLFIQTDKTIYTPGSTVLYRIF
TVNHKLLPVGRITVMVNIENPEGIPVKQDSLSSQNQLGVLP LSWDIPELVNMGQWKIRAYYENSPQQVFSTEFEVK
EYVLP SFEVIVEPTEKFYIYNEKGLEVTITARFLYGKKVEGTAFVIFGIQDGEQRISLPESLKRIPIEDGSGEV
VLSRKVL LDGVQNLRAEDLVGKSLYVSATVILHSGSDMVQAERSGIPITVSPYQIHFTKTPKYFKPGMPFDLMVF
VTNPDGSPAYRVPVAVQG EDTVQSLTQGDGVAKLSINTHPSQKPLSITVTRTKQELSEAEQATR TMQALPYSTVG
NSNNYLHLSVLRTEL RPGETLNVN FLLRMDRAHEAKIRYYTYLIMNKGRLKAGRQVREPGQDLVVLPLSIT TDF
IPSFRLVAYYTLIGASGQREV VADSVWVDVKDSCVGS LVVKSGQSEDRQPVPGQMTL KIEGDHGARVVLVAVDK
GVFVLNKKNKLTQSKIWDVVEKADIGCTPGSGKDYAGVFS DAGLTFTSSSGQQT AQRAELQCPQPAARRRRSVQL
TEKRMDKVGKYPKELRKCCEDGMRENPMRFSCQRRTRFISLGEACKKVFLDCCNYITELRRQHARASHLGLARSN
LDEDI IAEENIVSRSEFPESWLWNVEDLKEPPKNGISTKLMNIFLKDSITTWEILAVSMSDKKGICVADPF ETV
MQDFFIDRLRPYSVVRNEQVEIRAVLYNYRQNLKVRVELLHNPAFC SLATTKR RHQQT VTTIPPKSSLSVPYVI
VPLKTGLQEVEVKA AAVYHHFISDGVRSLSKVVEGIRMNKTVAVRTLDPERLGREGVQKEDIPPADLSDQVPDTE
SETRILLQGTPVAQMTEDAVDAERLKH LIVTPSGCGEQNMIGMTPTVIAVHYLDETEQWEKFGLEKRQGALELIK
KGYTQQLAFRQPSSAFAAFVKRAPSTWLTAYVVKVFS LAVNLIAIDSQVLCGAVKWLILEKQKPDGVFQEDAPVI
HQEMIGGLRNNNEKDMALTAFLVLSLQEAKDICEEQVNSLPGSITKAGDFLEANYMNLQRSYTVAIAGYAL AQMG
RLKGPLL NKFLT TAKDKNRWEDPGKQLYNVEATSYALLALLQLKDFDFVPPVVRWLNEQRYYG GYGSTQATFMV
FQALAQYQKDAPDHQELNLDVSLQLPSRSSKITHRIHWESASLLRSEETKENEGFTVTAEGKGQGTLSVVTMYHA
KAKDQLTCNKFDLKVTIKPAPETEKRPQDAKNTMILEICTRYRGDQDATMSILDISMMTGFAPDTDDLKQLANGV
DRYISKYELDKAFSDRNTLIIYLDKVSHSEDDCLAFKVHQYFNVELIQPGAVKVYAYYNLEESCTRFYHPEKEDG
KLNKLCRDELCRAEENCFIQKSDDKVTLEERLDKACEPGVDYVYKTRLVKVQLSNDFDEYIMAIEQTIKSGSDE
VQVGQQRTFISPIKCREALKLEEKHYLMWGLSSDFWGEKPNLSYIIGKDTWVEHWPEEDEQCQDEENQKQCQDLG
AFTESMVVFGCPN

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FIGURE 1989

GGGGGGAAACGGAAGTGAGCGGCGGGGTCGACTGACGGTAACGGGGCAGAGAGGCTGTTTCGCAGAGCTGCGGAAG
ATGAATGCCAGAGGACTTGGATCTGAGCTAAAGGACAGTATTCCAGTTACTGAACTTTTCAGCAAGTGGACCTTTT
GAAAGTCATGATCTTCTTCGGAAAGGTTTTTCTTGTGTGAAAAATGAACTTTTGCCTAGTCATCCCCTTGAATTA
TCAGAAAAAAATTTCCAGCTCAACCAAGATAAAATGAATTTTTCCACACTGAGAAACATTCAGGGTCTATTTGCT
CCGCTAAAATTACAGATGGAATTCAAGGCAGTGCAGCAGGTTTCAGCGTCTTCCATTTCTTTCAAGCTCAAATCTT
TCACTGGATGTTTTGAGGGGTAATGATGAGACTATTGGATTTGAGGATATTCTTAATGATCCATCACAAAGCGAA
GTCATGGGAGAGCCACACTTGATGGTGAATATAAACTTGGTTTTACTGTAATAGTGTGCTGTTTCATGGAAACCGA
GGGCTGCATCTTGTATATAGTCATCTTTGTACTGTAATTTGATGTACACAACATTAAAAGTACTGACACCTGAGA
ATTTCTGCTCAAGTAGTATCAGTGATCATTTAAAAATTTGGAGGGGTCTTTGGTTTACAGCCATGTGACAATTAAA
AGCACTAAAGGGAGATCATGTTAAAGCTCTTAATTTATATTAAAACAGTAGCCTTTGTCTTTAAAAAAGTTGTTG
CTCATGAATATTATAAAATGATCTACAGGTTTCAATTCAACCTGTTTCTAGGTTTTTTTGTAATTTAGTTTTGA
TTAAGCATTATAAGCATTGAGTCTATAAACTTTATAGTAGCATCTTTCAGAATAAACATTTTAAATTGATTTCA
GTGGCAACTCTCAAATTGATTACAATATGAGATATATCAGTGTCTCCATTAACTCATAAGAATAATATTTAC
TGTGTCAGTGCTATTTTAGGATTATAGTTATTGTTGATTATTTTCAGGTTGAAAAGTAGAAGTTCCAAGGTTTTG
ATTTTGGTCTGGTCTTTAAGTGAAAAATTAAAGCAACCAGTAGATGTAGGTTAACTTTTACTTCATAGACTTAA
TATGTGATTAATATATTGCCAAGCAACACTGTAAAGAAAAGTAAAACATTTTTTTCTTGTTCTTAATTTATAT
ATTACAAGATACTGTAAGGTATTCTTTATGAAGTTGATATATAAAAATTTACATTTTTTAGAACATTAGTGAATGG
ATCATCTTTTACAATTAAAAGTATATTTTGATTATCAGTTTCTTAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AA

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FIGURE 1990

MNARGLGSELKDSIPVTELSASGPFESHDLRLKGFSCVKNELLPSHPLELSEKNFQLNQDKMNFSTLRNIQGLFA
PLKLQMEFKAVQQVQRLPFLSSSNLSLDVLRGNDETIGFEDILNDPSQSEVMGEPHLMVEYKLGLL

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FIGURE 1991

CGGGAGCGTGGGGTATCTCGAGGTGCCGGGTGTCAGGCGCTCAGGGGCGCTAGGGTTTGAGGCCTGCTTTCTGCT
CGCGCCAGCAGAGCACTACCTGAGGCAGCGAGGCGCAGCGAGCCTAGCCTCCCCGCGCCCTGGGCAGTGTGGCCA
TGGGAGAATCAGGTGTTGACGCCGCATGTCTACTGGGCTCAGCGACACCGCGAGCTATATCTGCGCGTGGAGCTGA
GTGACGTACAGAACCCTGCCATCAGCATCACTGAAAACGTGCTGCATTTCAAAGCTCAAGGACATGGTGCCAAAG
GAGACAATGTCTATGAATTTACCTGGAGTTCTTAGACCTTGTGAAACCAGAGCCTGTTTACAAACTGACCCAGA
GGCAGGTAAACATTACAGTACAGAAGAAAGTGAGTCAGTGGTGGGAGAGACTCACAAAGCAGGAAAAGCGACCAC
TGTTTTTGGCTCCTGACTTTGATCGTTGGCTGGATGAATCTGATGCGGAAATGGAGCTCAGAGCTAAGGAAGAAG
AGCGCCTAAATAAACTCCGACTGGAAAGCGAAGGCTCTCCTGAAACTCTTACAAACTTAAGGAAAGGATACCTGT
TTATGTATAATCTTGTGCAATTCCTGGGATTCTCCTGGATCTTTGTCAACCTGACTGTGCGATTCTGTATCTTGG
GAAAAGAGTCCTTTTATGACACATTCCATACTGTGGCTGACATGATGTATTTCTGCCAGATGCTGGCAGTTGTGG
AAACTATCAATGCAGCAATTGGAGTCACTACGTCACCGGTGCTGCCTTCTCTGATCCAGCTTCTTGAAGAAATT
TTATTTTGTATCATCTTTGGCACCATGGAAGAAATGCAGAACAAAGCTGTGGTTTTCTTGTGTTTTATTTGT
GGAGTGCAATTGAAATTTTCAGGTACTCTTTCTACATGCTGACGTGCATTGACATGGATTGGAAGGTGCTCACAT
GGCTTCGTTACACTCTGTGGATTCCCTTATATCCACTGGGATGTTTGGTGGAAGCTGTCTCAGTGATTCACTCCA
TTCCAATATTCAATGAGACCGGACGATTCACTTTACATTGCCATATCCAGTGAAAATCAAAGTTAGATTTTCCT
TTTTTCTTCAGATTTATCTTATAATGATATTTTTAGGTTTATACATAAATTTTCGTCACCTTTATAAACAGCGCA
GACGGCGCTATGGAAAAAAGAAAAAGATCCACTAAAAAGAAAGATTTAGATGGCTTCTTGCCAGTT**TG**AGCCT
AATCTGATTCTTACAGTTTTACCTTCTTGAACCAATGTAAAAGTTTTTTAATGTTAAATGATTAAATTCTCAGT
GAGGCTATCTTCCTTTTCCCCAGTAACATTCCTGAATTTACTGTTATCTTATTGTAGTACTTGCATGACATGGAT
TCCTGATATCTGATGAGAGGTTCACTTGTGTATTCACTTAATGACACCAAAAGGCTCAGCCACCCCAACCCT
ATCTCATGTTCACTCTGTCTAATACATGCCAGAGATTTTTTTTTTCAAAAAGTGCTTTATCCCTACAATGTACTGA
CAGTTCTTACAGTTGAGGATTGGTTCTTTTCAGCTAATTGCTTGGTGGAATAAAAAAGCAAGACTAATGTCAA
CTCTAATGGAAGGCTGGTTAAAAGTGACTCAGGCAAGG

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FIGURE 1992

MENQVLTPHVVWAQRHRELYLRVELSDVQNPAISITENVLHFKAQGHGAKGDNVYEFHLEFLDLVKPEPVYKLTQ
RQVNITVQKKVSQWVERLTQEKRPLFLAPDFDRWLDESDAEMELRAKEEERLNKLRLESEGSPETLTNLRKGYL
FMYNLVQFLGFSWIFVNLTVRFCILGKESFYDTFHTVADMMYFCQMLAVVETINAAIGVTTSPVLP SLIQLLGRN
FILFIIFGTMEEMQNKAVVFFVFYLWSAIEIFRYSFYMLTCIDMDWKVLTWLRITLWIPLYPLGCLVEAVSVIQS
IPIFNETGRFSFTLPYPVKIKVRESFFLQIYILIMIFLGLYINFRHLYKQRRRRYGKKRKRSTKKKDLDGFLPV

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FIGURE 1993

CCAGGGCCTGACTAAACCTGGAGACTCGGGTGGCCGAGGGGCTTCATACCAGCTGAAGAGCGACAAGCCGCTGGC
AGCCGCGGATCTCACC GCCGCTCAGGGTTTTTAGA ACTTCAGCCATAAAAAATGGGCAGAAATTTTCCTTGATCATA
TCGGTGGTACCCGCTCTGTTTTCTTGTGCAAACTGTGATACGATCCTGACCAACCGCTCAGAACTCATCTCCACTC
GTTTCACAGGCGCCACTGGCAGAGCATTCTTTTTTAACAAGGTAGTTAACCTGCAGTACAGCGAAGTTCAAGATC
GGGTCA TGCTCACTGGCCGCCACATGGTTCGAGATGTGAGCTGCAAAA ACTGCAATAGCAA ACTGGGATGGATCT
ATGAGTTTGCCACTGAAGACAGCCAGCGATATAAGGAAGGCCGCGTGATCCTGGAACGTGCTCTAGTTCGAGAGA
GTGAGGGCTTTGAGGAGCATGTACCATCTGATAACTCTTGAAGATACAGAGAGAAATCCATCTTTTCCCAGGTCT
CCTTCACTGAAAACAAAAATCTACTTACATACACTGTCACCTTAGCATCAGAGTCGGATTAATGAACTGCGGAAC
AAGAGGTTGTGAGAATCTAAGATGGAACCTTTCTTTCTTTCTTTCTTTTAAATTTTGTATTTTCCATCCA
ACAGCAGTGTGTAGAGAGAATATTATGCAGATGCCGTTAATTTTTTACCCTATGTTTACATCTTGAGGCAGCAGA
GTCTGTCTGCAGCTATGTGGTGAGCTATGTAAGGAAAAAAATCTGGGCTGTTAGAGTGAAAAAGTGTGTTTTATG
TCAATTGTGAAAGGAAAATGTTAGGAGTATGGTTTTTAACTTGGGCTTCATTTTAACTTTTTTTTTTAAACCC
AGTTATTTCACTTGATTTGCTAGCTTCAGAGAAGAGATCCGAATCTGTGCCAGCGCTAAAGGCTCAGTGTTAGC
ATGGCTTGTGCTGGCCGGTGTGCCATATTCTTGTGGAGATGAACCGTAGCACCAGAGCCCATTTCTTCCTTGTC
GCTTGGCCCAAAGATGTCACCATTCCTAGTTATTTGTCACCACATAATTGGTGTGATTGGAAACTTTTTCTGA
GATGGGACAGAACTGCTGGGTTGTCTTTTCCATGTAACCTAAGCATAGTAATATAAATAAAGTAATAGTTGGAT
GCTTTTGGTCCTGTGTTGCTTTTAAAAACACCTTATAAAGAGGAGAGTATTTGATAAGCAATTTTCATAGTAGT
AAAGTTTTTTTTTTCATCTCTTAACTAAATTGACCATGCATATAATATTCTTTGTTTAAATGAAAGCATACTGTTG
AAACCCGCAGTGTTGCATTTAGAAAACAGTTGAACAGAATGTCAATGTGCATTTCATGAAAAAACATTTAATCT
GCATCTGTTTTAGAAAAGGGGGAAATGAAGCAACTTGTCTAAAAATACTGCTTTACAAAGCATTTTCAGCCTTTC
CCCTCAGTTTTGCATTGATTTTTTGGACAAGTCTGTAGAGCCTAATAGTTTCCATCAAAGGCCTAGATCTCTTATT
TAGCATTTTTTTCAGCTCTTCTCTCAGAAGTTTCAGCTGTTGAAACGAAA ACTGTACTTTGTACCCTCACATACAA
AGGGATCAAATTTGACCTGGTGTATTATTTAGCCCCAAATTTATGACATTACACAATATTAAAAATGTAAATGTTTC
TTTACCCAACTACTTCTAGATATTCTAGTATTTGCTTCTGGTGGAAATTAATGACGGTAAAATTTGGCTAATTAT
TTGAATGAATGAATGGATGGATGTTTTGCATGCTCAATTTCTAGGTCCTTTGTCTAGAAAGGAAATTTGCCTCAG
TTGAATTAGTGAAATATTTCTGTCGTTGATATTAAAAAGTGACTTCTGAGTACAGTTAAGTTCTCCTATTTGCCA
CTGGGCTGTTGGTTAGAAGCATAGGTAAC TGATTAAAGTAGGTATGATACTGCATTTGAAATAAGTGGACACAAAC
TATCCTTTCTCCACCATGGACTCAATCTGAGAACAACAGCATTCAATTTCCATTCAATTTCCATACTGGCTTTTGAT
TATATGCAGATTCCTAGTAGCATGCCTTACCTACAGCACTATGTGCATTGCTGT CACAATAAAGTATATTTGT
CTTGCAAA

2267/2825
FIGURE 1994

MGRIFLDHIGGTRLFSCANDTILTNRSELISTRFTGATGRAFLFNKVVNLQYSEVQDRVMLTGRHMVRDVSKN
CNSKLGWIYEFATEDSQRYKEGRVILERALVRESEGFEHVPSDNS

2268/2825
FIGURE 1995

GGCGGCGGTCCCGAGGGGCGGCGGCCGCGCTGCTCCCTGAGAACGGGTCCCGCAGCTGGGCAGGCGGGCGGCCTG
AGGGCGCGGAGCCATGAAGCTGTACAGCCTCAGCGTCTCTACAAAGGCGAGGCCAAGGTGGTGTGCTCAAAGC
CGCATACGATGTGTCTTCCTTCAGCTTTTTCCAGAGATCCAGCGTTCAGGAATTCATGACCTTCACGAGTCAACT
GATTGTGGAGCGCTCATCGAAAGGCACTAGAGCTTCTGTCAAAGAACAAGACTATCTGTGCCACGTCTACGTCCG
GAATGATAGTCTTGCAGGTGTGGTCATTGCTGACAATGAATACCCATCCCGGGTGGCCTTTACCTTGCTGGAGAA
GGTACTAGATGAATTCTCCAAGCAAGTCGACAGGATAGACTGGCCAGTAGGATCCCCGTGCTACAATCCATTACCC
AGCCCTGGATGGTCACCTCAGTAGATACCAGAACCCACGAGAAGCTGATCCCATGACTAAAGTGCAGGCCGAAGT
AGATGAGACCAAAATCATTCTGCACAACACCATGGAGTCTCTGTTAGAGCGAGGTGAGAAGCTAGATGACTTGGT
GTCCAAATCCGAGGTGTGCGGAACACAGTCTAAAGCCTTCTATAAACTGCCCGGAAACAAAACCTCATGCTGTGC
CATCATGTGATGCAGCCTGCCAGAGGCCCAATGCTGGAATGGCACCATCATTACATCAGAACTGCAGCCCCCTGG
AAAAGAAGAGACAGCCATAGACGAGGAGCCAGAGTGGGGGCGAGCTGGCCATTTTTATTTTGAAGTTCCTGCGAG
AAATGGATGGTGGAAAGGGTGGCGAATGTTCAAATTCATATGTGTGGTAGTGATTCTTGAAAAGAATTTGAGGTCC
CCAAAGGTGTATTTTTGGGCAAATGAAACCATAAACTCCGACTGGCTTCTGTAGATGCCAAAGGGCTCTTTTTCA
GCTAACCCCTGGGAAGGCTCTGTGGGAGGGAGGTTCGAGCCAGCTGTTTCTCGATCTTTGGTATATCTTTGGATCT
TATTTGTACATTAATGATATTAACACTCCAGTGGGGGGTGGGGAGTCCCTGATGCTAGGGCTGGGGTGGGTGGAG
TTTGAAGACTCTTGGGAAAGCCTCTCCTGGGGCCACTGTTGGGGGTGGGAGTGAGCCCACCACAGAGGCCACAGG
CAGGCCCCCACTTCAGGCCCCAAGGCCTGGGGCGGGGGGAACAGTCACTGGGTCTCAGATTCTGAGACTGTTGTTT
AGCTTACCTTTCTGCTAGGATTGGCTTCCCGCAGAGGGCAGGGCCCATCCTAAGCAGCTTCCAAGTCCCACAAAG
GTGGCTTGTGGGAGGATTTGGAAGGAGCTGCATTGTGGGCGGGGAGTGTGTGGGTGGGTTCGTACCAGCAAGTA
GACTAGGAAGTGAAGCCAGGAAAGGGGGATGTTTTCTGGTGTGTTGGATGGTCAGCTGGGAGTGTCATCATCAG
GGGAAGATCAAACACAGGTGCACTCAGCTGCCCAGGGCCTCTGGGACACTTGCCCTGACTTGCAACTTGCCTTGA
ACATCACGATCAAAGCAGCAGGTGCTGTGGTCTCTCAAATTTGATTTTTATTTGACTCTGTGGCTCTAAGACTGC
CTTGAACCGCTGAGGCCTATGCATCTGAACAAGTGGGTCTCTCCCTTGAGCACCAGGAGTGGGTGCCAGCCGGC
CCCGAGGATTCCCAGCACCCACCTATGGTCTTGCCAGCATAGGCTTGCTAGTTCCCTTCTTGGTCAGAGGTAGCT
GCAGAGGGGGGAGGCCAAGGGTTTGGTCTAAGCTGTGCCCTGCCACCTGGCAGGAGGCCCACTCACTGCCCAAGT
CATGGCAACAGGCTGGAGCAGCCAGGAGATGGGCCTAAAATGTTCTGGATCCCTTGGGTCTAGTGTTATGTTT
CAGTCTGCCCACCTGTGCTCAGGATGCAGCCCTGGGATCCAGCACCCATGGAAGCTTCTGCTGGGATGGTGTAC
CTATGGGTTTTGAACCAGTGTGGTATGGTCCCTGGGAGCTCTGCTCTGAGCTTGCCACACTGCTGAGAGCACCA
CTGTCCTGACCAGAGTCTCAGTGGTCTTGACCCCCAATGTGGGCAGGGGCTGGGCAGGAGGGTGGGTCTGCTGT
GGGTTCAGAGGACTCCACCTCCTGGCTGGTTTACCTGCTGCTGCCCATTTTCTCTGGGTACTGCTGGCCAGAGGA
CTTTAGCCTACCCCTGAAGAGCCTGTCCATGTCATTTTCTACTGCCATAGATACCCTAAGCCCAGGGCCCTTG
AGGCCCAGACTCAGCCTGCCACTGGTGCCGGAGACGGAGTGGAGTGGGCCTGGATCCGAGGGATGCTACCTCTC
CCTTTCCCACTTGAGGACCCTGGGGAGAGATGGGGGCGGGGAAAATGGAGGTATGAATTTGGGGTAAGAGGAAGT
GAGATCTCCGCTTGCAGGTGAGCCCTGCCTTGCAAGGCGGGCTGGCTTGAAGTCAAGGCCCTGTGAGATAGAGGGC
CCAGCCCAGCCCCACCCACAGATCCCCTGCTCCTGTTGTGTTCTGTTGTAAATCATTGGCGAGACTGTATTTTA
GTAAGTGTGCCTAACTTCCCTGTGTTCTATTTGAGAGGCGCCTGTCTGGATAAAGTTGTCTTGAAATTTCAAAA
AAAAAAAAAAAAAAAA

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FIGURE 1996

MKLYSLSVLYKGAEKVLLKAAYDVSSFQSSVQEFMTFTSQLIVERSSSKGTRASVKEQDYLCHVYVRNDSL
AGVVIADNEYPSRVAFTLLEKVLDEFKQVDRIDWPVGSPATIHYPALDGHLSRYQNPREADPMTKVQAELDETK
IILHNTMESLLERGEKLDDLVSKEVLGTQSKAFYKTARKQNSCCAIM

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FIGURE 1997

GGCACGAGGGAGAGAACTAGTCTCGAGTTTTTTTTTTTTTTTTTTTGACAAGATGGCGGCAGGAGGCAGTGGCGT
TGGTGGGAAGCGCAGCTCGAAAAGCGATGCCGATTCTGGTTTTCTGGGGCTGCGGCCCACTTCGGTGGACCCAGC
GCTGAGGCGGCGGCGGCGGAGGCCCAAGAAATAAGAAGCGGGGCTGGCGGCGGCTTGCTCAGGAGCCGCTGGGGCT
GGAGGTTGACCAGTTCTTGGGAAGACGTGCGGCTACAGGAGCGCACGAGCGGTGGCTTGTTGTCAGAGGCCCAA
TGAAAACTCTTCTTCGTGGACACTGGCTCCAAGGAAAAAGGGCTGACAAAGAAGAGAACCAAAGTCCAGAAGAA
GTCAGTGCTTCTCAAGAAACCCCTTCGGGTTGACCTCATCCTCGAGAACACATCCAAAGTCCCTGCCCCCAAAGA
CGTCCTCGCCACACAGGTCCCCAACGCCAAGAAGCTCAGGCGGAAGGAGCAGCTATGGGAGAAGCTGGCCAAGCA
GGGCGAGCTGCCCCGGGAGGTGCGCAGGGCCCAGGCCCGGCTCCTCAACCCTTCTGCAACAAGGGCCAAGCCCGG
GCCCCAGGACACCGTAGAGCGGCCCTTCTACGACCTCTGGGCCTCAGACAACCCCTGGACAGGCCGTTGGTTGG
CCAGGATGAGTTTTTCTGGAGCAGACCAAGAAGAAAGGAGTGAAGCGGCCAGCACGCCTGCACACCAAGCCGTC
CCAGGCGCCCGCCGTGGAGGTGGCGCCTGCCGGAGCTTCCTACAATCCATCCTTTGAAGACCACCAGACCCTGCT
CTCAGCGGCCACGAGGTGGAGTTGCAGCGGCAGAAGGAGGCGGAGAAGCTGGAGCGGCAGCTGGCCCTGCCCGC
CACGGAGCAGGCCGCCACCCAGGAGTCCACATTCCAGGAGCTGTGCGAGGGGCTGCTGGAGGAGTCGGATGGTGA
GGGGGAGCCAGGCCAGGGCGAGGGGCCGAGGCTGGGGATGCCGAGGTCTGTCCACGCCCCGCCCGCCTGGCCAC
CACAGAGAAGAAGACGGAGCAGCAGCGGCGGCGGGAGAAGGCTGTGCACAGGCTGCGGGTACAGCAGGCCGCGTT
GCGGGCCGCCCGGCTCCGGCACCCAGGAGCTGTTCCGGCTGCGCGGGATCAAGGCCCAGGTGGCCCTGAGGCTGGC
GGAGCTGGCGCGGCGGCGGAGGCGGCGGCGGCGGAGGCTGAGGCTGACAAGCCCCGAAGGCTGGGACG
GCTCAAGTACCAGGCACCTGACATCGACGTGCAGCTGAGCTCGGAGCTGACAGACTCGCTCAGGACCCTGAAGCC
CGAGGGCAACATCCTTCGAGACCGGTTCAAGAGCTTCCAGAGGAGGAATATGATCGAGCCTCGAGAGAGAGCCAA
GTTCAAACGCAAGTACAAGGTGAAGCTGGTGGAGAAGCGGGCGTTCCGTGAGATCCAGTTGTAGCTGCCATCAGA
TGCCGGAGACTCGCCCTTCAATAAAAAATCTCTTCTAGCTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

2271/2825
FIGURE 1998

MAAGGSGVGGKRSSKSDADSGFLGLRPTSVDPALRRRRRGPRNKKRGWRRRLAQEPLGLEVDQFLEDVRLQERTSG
GLLSEAPNEKLFFVDTGSKEKGLTKKRTKVQKKSLLLKKPLRVDLILENTSKVPAPKDVLAHQVPNAKKLRRKEQ
LWEKLAKQGELPREVRRRAQARLLNPSATRAKPGPQDTVERPFDLWASDNPLDRPLVGQDEFFLEQTKKKGVKRP
ARLHTKPSQAPAVEVAPAGASYNPSFEDHQTLSSAAHEVELQRQKEAEKLERQLALPATEQAATQESTFQELCEG
LLEESDGE GEPGQGE GPEAGDAEVCPTPARLATTEKKTEQQRRREKAVHRLRVQQAALRAARLRHQELFRLRGIK
AQVALRLAELARRRRRRQARREAEADKPRRLGRLKYQAPDIDVQLSSELTD SLRTLKPEGNILRDRFKSFQRRNM
IEPRERAKFKRKYKVKLVEKRAFREIQL

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FIGURE 1999

GGCACGAGGGTGCGGCTCGGGGTAATAGGGCTGCTGCTCGGCCGGCCGGCGGGCGGCGAGCAGCAGGGGCATGAGG
GCTAACCCGGGAAGCGGCAGCTGAGCGGGCCGGGAGGAGCGCCGGTCCCCGTGGATCCCGAGAGTGCAGAGCTCG
GGGCAGGGGCCGGGAGGCGTGCGGGGAGCCGGGCCCTCCCCTCAGGAACGTGTCCAGGGGCCGACCCGGCCCGTAG
TGTGGAAGCAGCTTCAGGTAGGTGAGCTCGTGAAACAATATGAAGAGGAGAAAATAGCCTTTTAAGGAAATTGGC
CCACAGAAAGGATGGCCTTCTTGACAATCCAACCTATCATTCTAGCTCATATTGACAGTCAATGTGACCACTG
ATGACACGGGAATGTGTGAGATGGTTCTCATTGATCATGATGTTGACCTAGAGAAGATTCACTCCTCCTTCAATGC
CTGGAGACAGTGGGTGAGAAATTCAGGGAAGCAATGGTGAGACTCAGGGCTATGTATATGCCAGTCACTCGATA
TTACCTCAAGTTGGGACTTTGGTATTAGAAGACGCTCAAACACAGCTCAAAGATTAGAAGCACTCCGAAAAGAGA
GACAAAACCAGATCAAATGCAAAAATATTCAGTGGAAGAAAGAAATTCTAAGCAATCAGCCAGGAGTTAAAGT
CACTGTTTGAAAAAAATCTCTCAAAGAGAAGCCTCCAATTTCTGGGAAGCAGTCGATATTATCTGTACGCCTAG
AACAGTGCCCTCTGCAGCTGAATAACCCCTTTTAACGAGTATTCCAAATTTGATGGCAAGGGTCATGTAGGTACAA
CAGCAACCAAGAAGATCGATGTCTACCTCCCTCTGCACTCGAGCCAGGACAGACTGCTGCCAATGACCGTGGTGA
CAATGGCCAGCGCCAGGGTGCAGGACCTGATCGGGCTCATCTGCTGGCAGTATACAAGCGAAGGACGGGAGCCGA
AGCTCAATGACAATGTCACTGCCTACTGCCTGCATATTGCTGAGGATGATGGGGAGGTGGACACCGATTTCCTCC
CGCTGGATTCCAATGAGCCATTCTATAAGTTTGGCTTCAGTACTTTGGCCCTGGTTGAAAAGTACTCATCTCCTG
GTCTGACATCCAAAGAGTCACTCTTTGTTTGAATAAAATGCTGCTCATGGATTCTCCCTTATTCAGGTGGACAACA
CAAAGGTTACCATGAAGGAAATCTTACTGAAGGCAGTGAAGCGAAGAAAAGGATCCAGAAAGTTTCAGGTTCAA
GGGCAGACGGGGTTTTTGGAGAGGATTCGCAAATTGACATAGCCACAGTACAGGATATGCTTAGCAGCCACCATT
ACAAGTCATTCAAAGTCAGCATGATCCACAGACTGCGATTACACAACCGACGTACAGCTAGGTATCTCTGGAGACA
AAGTAGAGATAGACCCTGTTACGAATCAGAAAGCCAGCACTAAGTTTTGGATTAAAGCAGAAACCCATCTCAATCG
ATTCCGACCTGCTCTGTGCCTGTGACCTTGCTGAAGAGAAAAAGCCCCAGTCACGCAATATTTAAACTCACGTATC
TAAGCAATCACGACTATAAACACCTCTACTTTGAATCGGACGCTGCTACCGTCAATGAAATTGTGCTCAAGGTTA
ACTACATCCTGGAATCGCGAGCTAGCACTGCCCCGGCTGACTACTTTGCTCAAAAACAAAGAAAACCTGAACAGAC
GTACGAGCTTCAGCTTCAGAAAGGAGAAGAAATCCGGGCAGCAGTGACACTGGCCTCCAGCCTCAATCTGTTCCG
TAGCTCAGAGCCTGCCTGCCAGGGCCAAGTGCCCTAGAGCCACCCGGTGTCTGAAGTCCTCGGGGGGAGGCCA
GCCCCTGGCTCACTGGCACAGGGCAGGTGGGCTCTCGGGGAAGGTGTCGGGGGCCCCCTAGGAGGGAGCGCTGGG
GACATTGCCATGGGACGGAAGTCTGCTTGGCAGTGCTTTGATAAGCGATGCTTGGGGGTCAGACCACCCCTAG
AGGAGCCACGTGCCGCCAGCCACCTTCAATGCCTGCCACCCGTGCCGAGGATGTACAGAGCCGTGCCACACAT
TTCCTTGCAACTTGATCAAATTTCTTAAAGCAAACAACAAAATGTACATTTCTGTTTTCTTTTAATAAACAG
GTGTACTCTTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2000

MAFLDNPTIILAHIRQSHVTSDDTGMCEMVLIDHDVDLEKIHPPSMPGDSGSEIQGSNGETQGYVYAQSVDITSS
WDFGIRRRSNTAQRLELRKERQNQIKCKNIQWKERNKQSAQELKSLFEKKSLKEKPPISGKQSILSVRIEQCP
LQLNNPFNEYSKFDGKGHVGTATKKIDVYLPLHSSQDRLLPMTVVMTASARVQDLIGLICWQYTSEGREPKLND
NVSAYCLHIAEDDGEVDTDFPPLDSNEPIHKFGFSTLALVEKYSSPGLTSKESLFVRINAAGHFSLIQVDNTKVT
MKEILLKAVKRRKGSQKVSGSRADGVFEEDSQIDIA TVQDMLSSH HYKSFKVSMIHR LRFTTDVQLGISGDKVEI
DPVTNQKASTKFWIKQKPI SIDSDLLCACDLAEEKSPSHAIFKLTYLSNHDYKHLYFESDAATVNEIVLKVNYIL
ESRASTARADYFAQKQRKLNRRTSFSFQKEKKSQQ

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FIGURE 2001

ACCCGTGGGCCTGTGGACTGCAGCCTCGGCGATCAGAGAGTGCTTGTGATTTCACGTATTTTTGCTGAACTCGTA
AAAGAGACACTTGGATGGTGGATTAAACCAGAACACTAACATTCTGTGAAAAGTTTCAAATTGGAGAATATTGAAT
TTTACCCCTAGTCCAGCAGCTCCGCTGTCACTTAAATACAGATGAATGAAGACCCCATTCGGAAAGACACCTGGC
CAGCGGTCCAGAGCTG**ATG**CAGGCCATGCTGGAAGTATCTGCCAACATGATGAAGAAGAGGACATCCCACAAAA
ACATCGGAGCAGTGTGGGTCCGAGCAAACCTGTTTCCCAGCCCCGGCGGAACATCGTAGGCTGCAGGATTCAGCA
TGGGTGGAAAGAGGGGAATGGCCCTGTTACCCAGTGGAAAGGGACCGTTCTGGACCAGGTGCCTGTAAATCCTTC
TTTGTATCTTATAAAATACGATGGATTTGACTGTGTTTATGGACTAGAACTTAATAAAGATGAAAGAGTTTCTGC
GCTTGAAGTCCTCCCTGATAGAGTTGCGACATCTCGAATCAGCGATGCACACTTGGCAGACACAATGATTGGCAA
AGCAGTGGAAACATATGTTTGAGACAGAGGATGGTTCTAAAGATGAGTGGAGGGGAATGGTCTTAGCACGTGCACC
TGTCATGAACACATGGTTTTACATTACCTATGAGAAAGACCCTGTCTTGTACATGTACCAACTCTTAGATGATTA
CAAAGAAGGCGACCTTCGCATTATGCCTGATTCCAATGATTACCTCCAGCAGAAAGGGAACCAGGAGAAGTTGT
GGACAGCCTGGTAGGCAAACAAGTGAATATGCCAAAGAAGATGGCTCGAAAAGGACTGGCATGGTCATTTCATCA
AGTAGAAGCCAAGCCCTCCGTCTATTTTCATCAAGTTTGTATGATGATTCCATATTTATGTCTACGATTTGGTGAA
AACATCC**TAG**ATGTCATCACAACTCTGCCAAATTTGTGGAACATGAAATGTATTATTTGTAGACATAAAGACT
TGATTGCTTTCCAGTTTAATGAAAGCTTAAATGTCCCTGCGAACCACAAATCTCTGCCAGCAGAACTGGTTTTGT
TCTGAATAGTACAGATTGATGTGAACACAAAGCATTTTGTGTAAGGAGAACCCCTTTCTTTTAAAGAAGTCTGT
CTATTTTCGAGGGGAGTTACAGGCAAGTTTGGTAAAAGTTAAGCTAGTATCATAGTCATTTAAATTTGTAATAGAT
CTTAACCATTTTCCCCCTCACCTAAGTCTCTTATTCTGCCGCCACAATGCAAGCATAGTTTGTATGTTTTCGTTA
TTGCCTTTTTTGAGATGTATGTATCTGTATCTACCTATATCTATATGTGTGTATACATATATAATATATACACAC
AGATACAAGTGTACACACACACACCACACACACACCCCACTGGCAGCTTTGTGGATTAGGATGGGGGTGC
GGGGTT

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FIGURE 2002

MQAMLEVSANMMKKRTSHKKHRSSVGPSKPVVSQPRRNIVGCRIQHWKEGNGPVTQWKGTVLDQVPVNP SLYLIK
YDGFDCVYGLELNKDERVSALEVLPDRVATSRISDAHLADTMIGKAVEHMFETEDGSKDEWRGMVLARAPVMNTW
FYITYEKDPVLYMYQLDDYKEGDLRIMPDSNDSPPAEREPGEVVDSL VGKQVEYAKEDGSKRTGMVIHQVEAKP
SVYFIKFDDDFHIYVYDLVKTS

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FIGURE 2003

GAAGATGCGGCGGAGCGACAGGAGGCGCTGAGGGAGTTCGTGGCGGTGACGGGCGCCGAGGAGGACCGGGCCCCG
CTTCTTTCTCGAGTCGGCCGGCTGGGACTTGCAGATCGCGCTAGCGAGCTTTTATGAGGACGGAGGGGATGAAGA
CATTGTGACCATTTCGCAGGCAACCCCCAGTTCAGTGTCAGAGGCACAGCCCCAGTGATAATAGAGTGACATC
CTTCAGAGACCTCATTATGACCAAGATGAAGATGAGGAGGAAGAGGAAGGCCAGAGGTTTTATGCTGGGGGCTC
AGAGAGAAAGTGACAGCAGATTGTTGGCCCTCCAGGAAGAAAAGTCCCAACGAGCTGGTGGATGATCTCTTTAA
AGGTGCCAAAGAGCATGGAGCTGTAGCTGTGGAGCGAGTGACCAAGAGCCCTGGAGAGACCAGTAAACCGAGAGT
TCATGTAGTATTGAACTCTGGAAGAGTGGAATTCAGCCTGGATAATGGAGAACTCAGAAGCTACCAAGACCCATC
CAATGCCCAGTTTCTGGAGTCTATCCGCAGAGGGGAGGTGCCAGCAGAGCTTCGGAGGCTAGCTCACGGTGGACA
GGTGAAGTTGGATATGGAGGACCATCGGGACGAGGACTTTGTGAAGCCCAAAGGAGCCTTCAAAGCCTTCACCTGG
CGAGGGTCAGAACTGGGCAGCACTGCCCCCAGGTGTTGAGTACCAGCTCTCCAGCCCAACAGGCAGAAAATGA
AGCCAAAGCCAGCTCTTCCATCTTAATCGACGAATCAGAGCCTACCACAAACATCCAAATTCGGCTTCGAGACGG
CGGGAGGCTGGTGCAGAAATTTAACCACAGCCACAGGATCAGCGACATCCGACTCTTCATCGTGGATGCCCGGCC
AGCCATGGCTGCCACCAGCTTTATCCTCATGACTACTTTCCCGAACAAAGAGCTGGCTGATGAGAGCCAGACCCT
GAAGGAAGCCAACCTGCTCAATGCTGTATCGTGCAGCGGTTAACAATAACCGCCAGCCAGCTGCCTGGCCTCCC
TCCTGTGTTTCCCATGGCCAGTGGCCATGCCCCATGGGGATCGCCCCCTCCTGCCCCCTTGTGCACACCCAGCAGT
CCAGTGCAACGTCTCCTCCATAGCTCTGGGTTCTTAGATCTTGTTGGTGGACGTTTGTCTTCTCCTTAGTTGCATTT
CCTGGGTTTTTGTGATGATCAATGGACTTTAATGAAAAAAAATAAAAAACAACCAAAAAAATTGAAGGAATATCA
CCAGCATGTTGTACGGAACTCTCCCACTGAAGCAGGCTTTAATTGCTTTAAATTATATTTATCTTGGGGCCTG
TGGGAGGAACTTCCTTCCATCTTCTCTGCATAAAAACTTGTGGCACACAATGCTTATTTACTAGTGTGTCCAC
CCGCCAGCCCCACAGATGACTGGAGGAAGGAGGGGAAATGTGTAGAAAGAGGCTTCGCCACCACTTGTTCACG
AGAATATATCACTTGCCAGATAAACTGGGCGGCAGCCAGAGTTCCCTGAAGTGGGAAGTCAGAGCTACATGCA
CACAGTGCTTTCAGAAGGTGAAAATAAATATTTCCCTGTGCTCCTTTTACTCAACCCCTGGGGTATCTAATCTTG
CCAGGTCTTGGCCAGTTGAGATTCTGTTCCACCTGCCTGCCTGGCCCTTTCCTCCATTACCATCCAGACTGCTCG
CCTCCTGGGGATTCTCAGGGGCTCCATTATGGCTTGATTTACTCCACGTGCAGAAGTCTTGAGTGGACCTAGGAG
GTAGGTGGGATATTTTTTTTTTCACTAGGATACAGCTCATGCCAACCCTCCTAAGTGAGTTCAGAATCAGGGTATC
TTGCCCTAAAAAGATAAACAGTCAAAATGCCACCGAGCTGTTCACTAGTGATGTGTGGCAAATCAAATCAACTGTT
GAAGAAGGGGTGAGTTTTCTGTGCTACAAGCACCTGTCACTGTTGGTACTTGCAGGAGGCTTCTGCTGGGTATGT
TTTGGAAGTGAGTGTCACACTTGGCTTTGCTTAGCAGGTTCTGCTTCACACTTGTCTTTGACCTGCTGACTTG
TGACTTGCAGAAACATAGGCAGTAGTCCTAGCCTGGTAAAGACCCTCCACCACCCCTATAAGTTTGATTGCTATG
CAGGTTTGGGAGAGGAGGCCTATTGGGCTCTTGGATGGAACCCCTTCCCGTATTAAACAAACCAGAGACAGAATC
AGTGCTGACTCAGGATCTCCTGGTTTGGAATCGTAATGTGCCTCAATCCTCTTTCCAAGCAGGCCTCACCAGTCT
CTTTCTCTTTCTGCTTCACCCCTGCAATGAGCCAAGAACCAACACTACATCCACCTAGAAGTGCAGAAGGGCTT
GTGGTTTCAACCAAGACCCATCCTGAGCAAGGGACTTGGCTTGGTGCTTTTGATCCCAAAGTTCACACCGGCA
GTGGCCTGCTGGGGCAATGGCATCTGTACGGTGTCTTCTCCAGCAGGTGGAGATTATGGAACCTACATATGGGT
CTGGAAAACTGTACACTGTTGTCACCTTGACATTAAAAACCAGAATGAGG

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FIGURE 2004

MAAERQEALREFVAVTGAEEDRARFFLESAGWDLQIALASFYEDGGDEDIVTISQATPSSVSRGTAPSDNRVTSF
RDLIHDQDEDEEEEEGQRFYAGGSERSGQQIVGPPRKKSPNELVDDLFGAKEHGAVAVERTKSPGETSKPRVH
VVLKLWKSGFSLDNGELRSYQDPFNAQFLESIRRGVPAELRRLAHGGQVNLDMEDHRDEDFVKPKGAFKAFTGE
GQKLGSTAPQVLSTSSPAQQAENEAKASSILIDSEPTTNIQIRLADGGRLVQKFNHSHRISDIRLFIVDARPA
MAATSFILMTTFPNKELADESOTLKEANLLNAVIVQRLT

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FIGURE 2005

GGCACGAGTGGGAGTACAGGACTCGCCTCCTCAGGGTTCCCTGTGCTGCCACTTTTCAGCC**ATG**GCCACAAGTGA
ACAGAGTATCTGCCAAGCCCGGGCTTCCGTGATGGTCTACGATGACACCAGTAAGAAATGGGTACCAATCAAACC
TGGCCAGCAGGGATTACAGCCGGATCAACATCTACCACAACACTGCCAGCAACACCTTCAGAGTCGTTGGAGTCAA
GTTGCAGGATCAGCAGGTTGTGATCAATTATTCAATCGTGAAAGGGCTGAAGTACAATCAGGCCACGCCAACCTT
CCACCAGTGGCGAGATGCCC GCCAGGTCTACGGCTTAACTTTGCAAGTAAAGAAGAGGGCAACCACGTTCTCCAA
TGCAATGCTGTTTGGCCCTGAACATCATGAATTCCCAAGAAGGAGGCCCCCTCCAGCCAGCGTCAGGTGCAGAATGG
CCCCCTCTCCTGATGAGATGGACATCCAGAGAAGACAAGTGAATGGAGCAGCACCAGCAGCAGCGTCAGGAATCTCT
AGAAAGAAGAACCTCGGCCACAGGGCCCATCCTCCCACCAGGACATCCTTCATCTGCAGCCAGCGCCCCCGTCTC
ATGTAGTGGGCCTCCACCGCCCCCCCCACCCCCAGTCCCACCTCCACCCACTGGGGCTACCCACCTCCCCCACC
CCCCTGCCAGCCGGAGGAGCCCAGGGGTCCAGCCACGACGAGAGCTCCATGTCAGGACTGGCCGCTGCCATAGC
TGGGGCCAAGCTGAGAAGAGTCCAACGGCCAGAAGACGCATCTGGAGGCTCCAGTCCCAGTGGGACCTCAAAGTC
CGATGCCAACC GGGAAGCAGCGGGGGTGGCGGAGGAGGCCTCATGGAGGAAATGAACAACTGCTGGCCAAGAG
GAGAAAAGCAGCCTCCCAGTCAGACAAGCCAGCCGAGAAGAAGGAAGATGAAAGCCAAATGGAAGATCCTAGTAC
CTCCCCCTCTCCGGGGACCCGAGCAGCCAGCCAGCCACCTAACTCCTCAGAGGCTGGCCGGAAGCCCTGGGAGCG
GAGCAACTCGGTGGAGAAGCCTGTGTCTCGATTCTGTCCAGAACCCCGTCTGTGGCAAAGAGCCCCGAAGCTAA
GAGCCCCCTTCAGTCGCAGCCTCACTCTAGGATGAAGCCTGCTGGGAGCGTGAATGACATGGCCCTGGATGCCTT
CGACTTGGACCGGATGAAGCAGGAGATCCTAGAGGAGGTGGTGAGAGAGCTCCACAAGGTGAAGGAGGAGATCAT
CGACGCCATCAGGCAGGAGCTGAGTGGGATCAGCACCACG**TAA**GGGGCCGGCCTCGCTGCGCTGATTTCGTGAGC
CCATCCGGCGACAGAGGACAGCCAGAAGCCCAGCCAGCCCCAGACTCCAGTGCACCAGAGCACGCACAGGAGCCT
GGGCGCGCTGCTGTGAAACGTCTGACCTGTGATCACACATGACAGTGAGGAAACCAAGTGCAACTCCTGGGTTT
TTTTAGATTCTGCCTGACACGGAACACCAGGTCTGCTCGTCTTTTTTGTGTTTTATATTTGCTTATTTAAGGTAC
ATTTCTTTGGGTTTCTAGAGACGCCCCTAAGTCACCTGCTTCATTAGACGGTTTTCCAGGTTTTCTCCCAGGTGAC
GCTGTTAGCGCCTCAGCTGGCGGTGACAGCCGGCCCCAGCGTGGCGCCACCACACACCGCAGAGCTGTCCAGGCAC
AGCTCCGTCCCCAGCGCTCATGGTGTGAAACTGTCTGTCTATGCACCACGGTGTCTGTGTCCACACAGTAATAAA
CGGTTTACTGTCCGCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2006

MATSEQSIQARASVMVYDDTSKKWVP IKPGQQGFSRINIYHNTASNTFRVVGVKLQDQQVVINY SIVKGLKYNQ
ATPTFHQWRDARQVYGLNFASKEEATTF SNAMLFALNIMNSQEGGPSSQRQVQNGPSPDEMDI QRRQVMEQHQQQ
RQESLERRTSATGPILPPGHPSSAASAPVSCSGPPPPPPPPVPPPTGATPPPPPLPAGGAQGSSHDESSMSGL
AAAIAGAKLRRVQRPEDASGGSSPSGTSKSDANRASSGGGGGGLMEEMNKLLAKRRKAASQSDKPAEKKEDESQM
EDPSTSPSPGTRAASQPPNSSEAGRKPWERSNSVEKPVSSILSRTPSVAKSPEAKSPLQSQPHSRMKPAGSVNDM
ALDAFDLDRMKQEILEEVVRELHKVKEEIIDAIRQEELSGISTT

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FIGURE 2007

GGGGGGGAGGACTGGGTGCGCCTGCAGGGATCGGAAGCCGGTTGGGGTGTGAGAGGTTTTCTCGCTCTAGGGAGA
TTCTTCAAGCAATCACT**ATG**TCAACAGACACAGGTGTTCCCTTCCTTCATATGAGGAAGATCAGGGATCAAAAC
TCATTGAAAAGCTAAAGAGGCACCATTCGTACCCGTTGGAATAGCGGGTTTTGCAGCAATTGTTGCATATGGAT
TATATAAACTGAAGAGCAGGGGAAATACTAAAATGTCCATTTCATCTGATCCACATGCGTGTGGCAGCCCAAGGCT
TTGTTGTAGGAGCAATGACTGTTGGTATGGGCTATTCCATGTATCGGAATTCTGGGCAAAACCTGAGCCT**TAGA**
AGAAGAGATGCTGTCTTGGTCTTGTGGAGGAGCTTGCTTTAGTTAGATGTCTTATTATTAAAGTTACCTATTAT
TGTGGAAATAAACTAATTTGTATGGGTTTAGATGGTAACATGGCATTTTGAATATTGGCTTCCTTTCTTGCAGG
CTTGATTTGCTTGGTGACCGAATTACTAGTGACTAGTTTACTAACTAGGTCATTCAAGGAAGTCAAGTTAACTTA
AACATGTCACCTAAATGCACTTGATGGTGTGAAATGTCCACCTTCTTAAATTTTTAAGATGAACCTTAGTTCTAA
AGAAGATAACAGGCCAATCCTGAAGGTACTCCCTGTTTGCTGCAGAATGTCAGATATTTTGGATGTTGCATAAGA
GTCTTATTTGCCCCAGTTAATTCAACTTTTCGTCTGCCTGTTTTGTGGACTGGCTGGCTCTGTTAGAACTCTGTCC
AAAAAGTGCAATGGAATATACTTGTAAAGCTTCCCACAATTGACAATATATATGCATGTGTTTAAACCAATCCA
GAAAGCTTAAACAATAGAGCTGCATAATAGTATTTATTAAAGAATCACCAACTGTAAACATGAGAATAACTTAAG
GTTCTAGTTTAGTTTTTTTGTAAATTGCAAAATTATTTTTTGCTGCTGATATATTAGAATAATTTTAAATGTCATC
TTGAAATAGAAATATGTATTTTAAGCACTCACGCAAAGGTAAATGAACACGTTTTTAAATGTGTGTGTTGCTAATT
TTTTCCATAAGAATTGTAAACATTGAACTGAACAAATTACCTATAATGGATTTGGTTAATGACTTATGAGCAAGC
TGGTTTGGCCAGACAGTATACCCAACTTTTATATAATATACAGAAGGCTATCACACTTGTGAAATTCTCTTGTG
TAATCTGAATTTGCATTCCATGGTGTAAACATGGTATATGTATTGTTATTAAAGTAAGTGACCCATGAAAAAAAA
AAAAAAAAAAAA

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FIGURE 2008

MSTDIGVSLPSYEEDQGSKLIRKAKEAPFVPVGIAGFAAIVAYGLYKLKSRGNTKMSIHLLIHMVAAQGFVVGAM
TVGMGYSMYREFWAKPEP

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FIGURE 2009

ATATGATCCGCTCGGCTTCCTGGGTCTGGCTGCTGCCGCCCGCCGGTGTCCGCCCGTGTGCGCCGGGGCACC
GGAGCCGTTGGAGGGTCCGGGCGGAGGCCCGCTCGTGTGGAAGTCGTGACGCCGCCGCTCGTCCGTCTCCCGT
CCGTTCTCGCTCCCGGCCGCCATC**ATGCT**GGCGCTCATCTCCCGCCTGCTGGACTGGTTCCGTTCTGCTCTTCTGG
AAGGAAGAGATGGAGCTGACGCTCGTGGGGCTGCAGTACTCGGGCAAGACCACCTTCGTCAATGTCATCGCGTCA
GGTCAATTCACTGAAGATATGATACCCACAGTGGGCTTCAACATGAGGAAGGTAACCTAAAGGTAACGTCACAATA
AAGATCTGGGACATAGGAGGACAACCCCGATTTTCGAAGCATGTGGGAGCGGTATTGCAGAGGAGTCAATGCTATT
GTTTACATGATAGATGCTGCAGATCGTGAAAAGATAGAAGCTTCCCGAAATGAGCTACATAATCTTCTAGATAAA
CCACAGTTACAAGGAATTCAGTGCTAGTGCTTGGAAACAAGAGAGATCTTCCTAATGCCTTGGATGAGAAACAG
CTAATTGAAAAAATGAATCTGTCTGCTATTCAAGGATAGAGAAATTTGCTGCTATTCAATTTCTTGCAAAGAAAAG
GATAATATAGATATCACACTTCAGTGGCTTATTCAGCATTCAAATCTAGAAGAAGCT**TGA**AGCATCTCTTGAAAGT
CTTCCAGTCTTCTTGGCTATAATCCTAGAATTATTGTCCGTTCCCTCTGAAGTAATTCCCAGAATACGGTCTTTC
CTAAACCCAGAAATTGCCTTTTTTCAGAGTCTATTTCTCATGTGCACTGCTGAAGATGAATATCCCTAATCCTTC
ATAAAGAATCAGCTAGAGTTGTATGATAAAGTCAGCACACACAAAAAGGCTTCTTACACATAACAAAAAAATG
TCTTAAACCATGTGTAGAGCTTTAAAAACAGAAAAAAACCCCATATACTTATGACCATCTTAAATCAAGAAAAT
TGCATATTTCCATTCTGGTCTTTCTGGGCCAGATTTTATATTGGTTTTTCAGTAAATGTCTATCTATAATATTTTC
ATTATAGAGTCCAGTAGCTTAATACTGACACTGACTTGATACAGCACGAAGTTTCTAGTGCCACACACAGTATTT
AGAAAACCTTTAGGCGTGAATGACTCATGTGGGATATATGTAAACATAATGTTTATTTTATCTCACAAATGCATG
TGAAATGTATAATTACATCTTAGGAATCCAAATGGTCTGCAGAGAGTGAGCGGAGGCACCAGATCAATGTTGGT
TCTTTGCACTGGTGAGATTCTGCCTGATGAATATTAAGATATCCTGCTTTCTGAGAACTCTATCACCAGATGGC
AGTTGGGATATGGGAGGAATAAAGCATCCTGTTTTGTATCTGTCCAGATCATTATTTCTGTCTCTTGTTTTTTC
TTCTGGTTTCAGGATACTTTTTTAAGGGGTTGAGAATTGAAGATTTTCCAAAAGCGTTCATGAATTTAGAGCATT
CCACCCAATATAATAAAACCTGTTAAGAATGTCAGTCTTTGTTCAAACATCTGTTTGTCTATCTCCAGTCAATTA
AATCAGTGCTGCTGCATGACACTCTTAACCTGACTTTTTATATCCAGTCATAAAGTTGACTTTTCAGCACAAAA
GATACTTATAAACAAATAAAAAATTTTTATTTTTCTCTCTTACTGATGTAAGCTTTGGCACTCTTTTGACTGGTG
CCATTAGACATCTTGATTATTGTGACAACTCTAGACCTGCCTGCTTTATCTAATGTAATCATGCTCAATGTCTAC
AGGTTGTTTAAATAATCAGTCACACAGAGAAGTGAAGAACTGATGCTGTTTGTGTTGCTTCTATGATACAGAGATGT
CTAAAAACTTCAAATGGACATGTTTTGTAGTTTAGCGACTTCCGTATACATAAAGGGACATATTAATACTGGTTC
ATTTGTAAATTATTATTCATATAGACCACTGTAGTAGATAAACTCTATGGTACACCTGCTTATGTGTTGCCCTCA
CACTGTGTGTGATTTTGTTCCTTTGTTAAGCAGCACTTATGTAGACTGCATTTCCAAATGTGTTGAGCACTCGG
AGTGTAGTCAACAGTAAGTTCTTTTAAATGAATATCAGTTTTAATTTATAGACTGCCATGGCCTTAAAAATATTCT
GTACAATATACTGCCTGTGTTGCACAGACACTACTTGCTTTTCTCCATTCAATTTTTATGAGTAGAATCTGGG
CTTTTAAATTTCTCTTCTTATTCTTTGAAGCATGTTGCATACTACCCTGGTGGGATGGATGGTTCTGTAAATGAA
GGGATATTTAACTTGCTACTGTTGTTCAACACCATTAATGGTCAGTGTGAACCATTACAAAGAATGTGGCAACT
TGCTTGTGCCTAAAAGGAGGAATTGGAAGTAGAATGTGTGACTCTGTGGGGACTGCATAGGTTTGTAAATTGACC
TATAGCTAAACCTTAATGTGTTTGTGTGTCTATACATTGCTTTCCGCATTTCAAGACATCCAGACGCTATTACCA
ACATTTTCTGTGCATTAACCTCTGCATGTGAAAACCTTTAACAGTTACTGAACTATGTAAATATGTGAATTTTT
TTATTTAGGTGGATGCATTTTTTGTCTGTTTACTGCTCTTCTCAGCTTTATTCAATAAACTTGCATTTTAAGGGT
TGTATTGGCAATTTTAACTTAAATGTGCATCATGATGGAAGGTGCAGACTTTTTTGAAGTTTCCGAGAGGAGG
GTCTATAGACCATTTGTGAGAAATCAGATCAGCCCTCAAAGAATGGGGTCTGTGGGCTAGTTAAATAGAAATAA
ACTTTTAAATATCCACAG

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FIGURE 2010

MLALISRLLDWFRSLFWKEEMELTLVGLQYSGKTTFVNVIASGQFSEDMIPTVGFNMRKVTKGNVTIKIWDIGGQ
PRFRSMWERYCRGVNAIVYMIDAADREKIEASRNELHNLDPQLQGIPVLVLGNKRDLPNALDEKQLIEKMNLS
AIQDREICCYSSISCKEKNIDITLQWLIQHSKSRRS

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FIGURE 2011A

CCCCGACTAGCCCCGACAGTCCCCGACTAGCCCCGACAGCCCCAGCAGGATCTGCATCGTCATCGAGCCGGCCCCAGC
TTCTGAAGGGAGATGTC**ATG**GTGAAATGCTACCACAAGAAATACCGCTCGGCCACCCGTGACGTCATTTTCCGCC
TGCAGTTTCACACTGGGGCTGTGCAGGGCTACGGGCTGGTGTGTTGGGAAGGAGGATCTGGACAATGCCAGCAAAG
ATGACCGTTTTCTGACTATGGGAAGGTTGAATTAGTCTTCTCTGCCACGCCTGAGAAGATTCAAGGGTCCGAAC
ACTTGTACAACGACCACGGTGTGATTGTGGACTACAACACAACAGACCCACTGATACGCTGGGACTCGTACGAGA
ACCTCAGTGCAGATGGAGAAGTGCTACACACGCAGGGCCCTGTGATGGCAGCCTTTACGCGAAGGTGAGGAAGA
AAAGCTCCTCGGATCCTGGCATCCCAGGTGGCCCCCAGGCAATCCCGGCCACCAACAGCCCAGACCACAGTGACC
ACACCTTGCTGTGCAGCAGTGAATCGGGCCACTCTACAGCCTCTGCCAGGACGGATAAGACGGAAAGAGCGCCTGG
CCCCAGGAACCAGGAGGGGCTGAGTGCCAGGAGAAAGGCAGAGTTGGACCAGCTGCTCAGTGGCTTTGGCCTGG
AAGATCCTGGAAGCTCCCTCAAGGAAATGACTGATGCTCGAAGCAAGTACAGTGGGACCCGCCACGTGGTGCCAG
CCCAGGTTACGTGAATGGAGACGCTGCTCTGAAGGATCGGGAGACAGACATTCTGGATGACGAGATGCCCCACC
ACGACCTGCACAGTGTGGACAGCCTTGGGACCCCTGTCTCCTCGGAAGGGCCTCAGTCGGCCACCTGGGTCCCT
TCACCTGCCACAAGAGCAGCCAGAACTCACTCCTATCTGACGTTTTTGGCAGCAACGTTGGTGAAGATCCGCAGG
GCACCTCGTTCCGGACCTGGGCCTTGGCATGGACGGCCCCCTATGAGCGGGAGCGGACTTTTGGGAGTCGAGAGC
CCAAGCAGCCCCAGCCCCCTGCTGAGAAAGCCCTCAGTGTCCGCCCAGATGCAGGCCTATGGGCAGAGCAGCTACT
CCACACAGACCTGGGTGCGCCAGCAGCAGATGGTTGTAGCTCACCAGTATAGCTTCGCCCCAGATGGGGAGGCCC
GGCTGGTGAGCCGCTGCCCTGCAGACAATCCTGGCCTCGTCCAGGCCCAGCCAGAGTGCCACTCACCCCCACCC
GAGGGACCAGCAGTAGGGTGGCTGTCCAGAGGGGTGTAGGCAGTGGGCCACATCCCCCTGACACACAGCAGCCCT
CTCCCAGCAAAGCGTTCAAACCCAGGTTTCCAGGAGACCAGGTTGTGAATGGAGCCGGCCAGAGCTGAGCACAG
GCCCCCTCCCCAGGCTCGCCACCCTGGACATCGACCAGTCCATCGAGCAGCTCAACAGGCTGATCCTGGAGCTGG
ATCCACCTTCGAGCCCATCCCTACCCACATGAACGCCCTCGGTAGCCAGGCCAATGGCTCTGTGTCTCCAGACA
GCGTGGGAGGTGGGCTCCGGGCAAGCAGCAGGCTGCCTGACACAGGAGAGGGCCCCCAGCAGGGCCACCGGGCGGC
AAGGCTCCTCTGCTGAACAGCCCCCTGGGCGGGAGACTCAGGAAGCTGAGCCTGGGGCAGTACGACAACGATGCTG
GGGGGCAGCTGCCCTTCTCCAAATGTGCATGGGGAAAGGCTGGTGTGGACTATGCCCAAACCTGCCGCCATTCC
CCTCACCAGCGGACGTCAAAGAGACGATGACCCCTGGCTATCCCCAGGACCTCGATATTATCGATGGCAGAAATT
TAAGTAGCAAGGAGTCCATGTGTTCAACTCCAGCATTTCTGTGTCTCCAGAGACACCGTATGTGAAAACAGCGC
TGCGCCATCCTCCGTTACGCCCACCTGAGCCCCCGCTGAGCAGCCCAGCCAGTCAGCACAAAGGAGGACGTGAAC
CACGAAGCTGCCCTGAGACGCTCACTCACGCTGTGGGGATGTGAGAGAGCCCCATCGGACCCAAATCCACGATGC
TCCGGGCTGATGCGTCCTCGACGCCCTCCTTTACGAGGCTTTTGCTTCTTCTGACCATTTCCAGCAACGGCC
CTGGGCAGAGGAGAGAGAGCTCCTCTTCTGCAGAACGCCAGTGGGTGGAGAGCAGCCCCAAGCCCATGGTTTCCC
TGCTGGGGAGCGGCCGGCCCCACCGGAAGTCCCTCAGCGCTGAGTTCTCCGGTACCAGGAAGGACTCCCCAGTGC
TGTCTGCTTCCCGCCGTCAGAGCTCAGGCTCCTTTCCACAGCCATGAGCTGTCCCTAGCAGAGCCACCGGACT
CCCTGGCGCCTCCCAGCAGCCAGGCCTTCTGGGCTTCGGCACCGCCCCAGTGGGAAGTGGCCTTCCGCCCGAGG
AGGACCTGGGGGCCCTTGCTGGCCAATTCTCATGGAGCGTACCGACCCCCAGCATCCCGCTGACAGCGACAGGGG
CTGCCGACAATGGCTTCTGTCCCAACTTTCTCACGGTGGCGCCTGGACACAGCAGCCACCACAGTCCAGGCC
TGCAGGGCCAGGGTGTGACCCTGCCCGGGCAGCCACCCCTCCCTGAGAAGAAGCGGGCCTCGGAGGGGGATCGTT
CTTTGGGCTCAGTCTCTCCCTCCTCCAGTGGCTTCTCCAGCCCCGCACAGCGGGAGCACCATCAGTATCCCCTTCC
CAAATGTCCTTCCCGACTTTTCCAAGGCTTCAGAAGCGGCCTCACCTCTGCCAGATAGTCCAGGTGATAAACTTG
TGATCGTGAAATTTGTTCAAGACACTTCCAAGTTCTGGTACAAGGCGGATATTTCAAGAGAACAAGCCATCGCCA
TGTTGAAGGACAAGGAGCCGGGCTCATTATTGTTTCGAGACAGCCATTCTTCCGAGGGGCCTATGGCCTGGCCA
TGAAGGTGGCCACGCCCCACCTTCAGTCTGACGCTGAACAAGAAAGCTGGAGATTTGGCCAATGAACTCGTCC
GGCACTTTTTGATCGAGTGTACCCCGAAGGGAGTGCAGTTGAAAGGGTGCTCGAATGAACCATATTTCCGGAGCC
TGACGGCCTTGGTGTGCCAGCATTCATCACGCCCTTGGCCTTGGCGTGCAAGCTGCTTATCCCAGAGAGAGATC
CATTGGAGGAAATAGCAGAAAGTTCTCCCCAGACGGCAGCCAATTCAGCAGCTGAGCTGTTGAAGCAGGGGGCAG
CCTGCAACGTGTGGTACTTGAACCTCTGTGGAGATGGAGTCCCTCACCGGCCACCAGGCGATCCAGAAGGCCCTGA
GCATCACCTTGGTCCAGGAGCTCCACCTGTGTCCACAGTTGTGCACTTCAAGGTGTCAGCCCAGGGCATCACCC
TGACAGACAATCAGAGGAAGCTCTTCTTCCGGAGGCATTACCCCGTGAACAGTGTGATTTTCTGTGCCTTGGACC
CACAAGACAGGAAGTGGATCAAAGATGGCCCTTCTCAAAGTCTTTGGATTTGTGGCCCGGAAGCAGGGCAGTG

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FIGURE 2011B

[illegible]

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FIGURE 2012

MVKCYHKKYRSATRDVIFRLQFHTGAVQGYGLVFGKEDLDNASKDDRFDPDYGKVELVFSATPEKIQGSEHLYNDH
GVIVDYNTTDPILIRWDSYENLSADGEVLHTQGPVDGSLYAKVRKKSSSDPGIPGGPQAIPATNSPDHSDHTLSVS
SDSGHSTASARTDKTEERLAPGTRRGLSAQEKAELDQLLSGFGLEDPGSSLKEMTDARSKYSGTRHVVPAQVHVN
GDAALKDRETDILDDEMPHHDLHSVDSLGLTSSSEGPQSAHLGPFTCHKSSQNSLLSDGFGSNVGEDPQGTILVPD
LGLGMDGPYERERTFGSREPKQPQPLLRLKPSVSAQMQAYGQSSYSTQTWVRQQQMVVAHQYSFAPDGEARLVSR
PADNPGLVQAQPRVPLTPTRGTSSRVAVQRGVSGPHPPDTQQPSPSKAFKPRFPDQVVNGAGPELSTGPPSGS
PTLDIDQSIEQLNRLILELDPTEFPIPTHMNALGSQANGSVSPDSVGGGLRASSRLPDTGEGPSRATGRQGSSAE
QPLGGRLRLKLSLGQYDNDAGGQLPFSKCAWGKAGVDYAPNLPPFPSPADVKETMTPGYPDLDIIDGRILSSKES
MCSTPAFPVSPETPYVKTALRHPPFSPPEPPLSSPASQHKGGREPRSCPETLTHAVGMSESPIGPKSTMLRADAS
STPSFQQAFASSCTISSNGPGQRRESSSSAERQWVESSPKPMVSLLGSGRPTGSPLSAEFSGTRKDSPVLSCFPP
SELQAPFHSHELSLAEPDPSLAPPSSQAFLGFGTAPVGSGLPPEEDLGALLANSHGASPTPSIPLTATGAADNGF
LSHNFLTAVAPGHSSHHSPGLQGQGVTLPGQPPLPEKKRASEGDRSLGVSVPSSSGFSSPHSGSTISIPFPNVLPD
FSKASEAASPLPDSPGDKLVIVKFVQDTSKFYKADISREQAIAMLDKEPGSFIVRDSHSFRGAYGLAMKVATP
PPSVLQLNKKAGDLANELVRHFLIECTPKGVRLKGCNEPYFGSLTALVCQHSITPLALPCKLLIPERDPLEEIA
ESSPQTAANSAAELLKQGAACNVWYLSNVEMESLTGHQAIQKALSITLVQEPPPVS TVVHFKVSAQGITLTDNQR
KLFFRRHYPVNSVIFCALDPQDRKWKIDGPSSKVFGFVARKQGSATDNVCHLFAEHDPEQPASAI VNFVSKVMIG
SPKKV

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FIGURE 2013

CCTTTGCCCTGAAGGGGGCTGGATGGGCAAGGCGGCCGCGATGGCTCGAGCTCGGGCGGTGGCGGCGGTGGCCGG
AGGCGGCGGTGCCTCCTCCTCCTCGCCCCGGCGCCGGCGGTGATCCGAGCGAGCGGGCCGCGGCCCGATGAGAC
TGCTGGCGGGCTGGCTGTGCCTGAGCCTGGCGTCCGTGTGGCTGGCGCGGAGGATGTGGACGCTGCGGAGCCCGC
TCACCCGCTCCCTGTACGTGAAC**ATGA**CTAGCGGCCCGGGTGGGCCGGCGGGCGGGCGGGCGGGCAGGAAGGAGA
ACCACCAGTGGTATGTGTGCAACAGAGAGAAAATTATGCGAATCACTCCAGGCTGTCTTTGTTTCAGAGTTACCTTG
ATCAAGGAACACAGATCTTCTTAAACAACAGCATTGAGAAATCGGGCTGGCTATTTATCCAATTATATCATTCTT
TTGTGTCTATCTGTTTTTAGCCTGTTTATGTCTAGAACATCTATCAATGGGTTGCTAGGAAGAGGCTCAATGTTTG
TGTTTTACCCAGATCAGTTTCAGAGACTGCTTAAAAATTAATCCAGACTGGAAAACCCACAGACTTCTTGATTAG
GTGCTGGAGATGGAGAAGTCACAAAAATCATGAGCCCTCATTTTGAAGAAATCTATGCCACTGAGCTTCTGAAA
CTATGATATGGCAGCTTCAGAAAAAGAAATACAGAGTCTTGGTATAAATGAATGGCAGAATACGGGGTTCAGT
ATGATGTCATCAGCTGCCTGAACCTTGCTGGACCGCTGTGATCAGCCCTGACTTTGTTAAAGATATCAGAAGTG
TCTTGGAGCCAACTAGAGGCAGGGTCATCCTTGCCCTTGTCCTCCCCTTTTCATCCCTATGTGAAAAACGTAGGTG
GCAAGTGGGAGAAACCATCAGAAATTTTGAAATCAAAGGACAGAAGTGGGAAGAACAAGTGAATAGTCTGCCTG
AAGTTTTTCAGAAAAGCTGGTTTTTGTATCGAAGCTTTCACCAGACTACCATACCTGTGTGAAGGCGACATGTATA
ATGACTACTACGTTCTGGATGACGCTGTCTTTGTTCTCAAACCAGTAT**TAA**ACACGTGGAGGTGCAAGTCTTCAGA
GTCCGCACCTCCGGGATGTGCCCTTGGAAGAGGGTCTGTGTTCACAATTACGTGAAGGGAGGACCTTGGGGAC
CGCCATTCTAAATATCATGTAGGAATTTAAAAAGCCAAAATACTAATTATTTCTTTGTAGTGTGTAAAGGAATGT
TTTTAAAGACAAAAACCCAACTCTTTGTGGATTTTATCAACTCTTTACTCAGAGCCACTCTCCAATGCAGGTC
ACACTCCAATTATGATGGAAGATATTTTTTATACTTAATGCAGTAGGGACTCATTCCAGACAAAGCAATAGTC
ACGACTTCATGGAACCAATCAATGGATTGTTTTTTGAAGACTGGCAATAAAGCTGTCCATTCAATTCCAAATACT
GGTTTTAAGGTATAGCCACTGATATTCTTTCATGTTTAGAAATTCCTTCTGTTATTATTCAAGAAAATGTTTTTA
ATCATGCTAATAAACTTTTTTGGAGATGACTTTGGCATCATGTTTGAATTCATATAAAGCTCCCCTAGCATTTTT
TATTGGTTTGGCTTCAGGAGTACCCAAATAGTAGCATTATGAGAATGACGCAGACAATTTGAATAGGGGGGAAGG
AAGGCTTCAGACTTGGGGGAAGGGGAGATTATTGCAAATTGCAGTGAACACTGAGTCAGTAAAAAAAAAAAAACAG
AAACAAAAACCCAGCCTCATTAGATACAGAACTTCAGGGACCCCTCCCCCAGTTAATGCTGCTGT
GAAAAATGCAAAATAACCTGGTTCTGACTTTGTGATCACTCATGTCCATACACTGAACCTTTGTTTTTTCTGGA
CAATCTCAGGTTCTCAGAATTGAAACATTGAGTTTTGTCTACTGACAAAATGCAACTAAAAATGTTTTAATTCAA
CTTCTTACTCTACACTTATATACCTCTCTCCAGAGCTTGGCTCTTCCCTGAAATCCTTAAAGGAGTTTATTATT
TGCCAAGAATATGGTTTGATGAAGACCGTGTGAGACTCATGCATTCTGGAATCCGTGAGTGCCTCCAACCATAAA
CCCAGAAATGCTGCCATAGAGGAACCCATTAGCAAGATCAATAACCATCGTGGATATTCCAAGAGCAGAGCATT
TAACCCAGAATCTGAAATCTCAGTAATAACAGAAATGTCAATATGAGATTGTGGTTATTAACAATATGTTATCCT
CACTACTTTATTTCTTTTTTTCATCCAGGTGTTTCATTAAGTATTCTCATTATATGCTCATAGAAGTCATCAGAT
CAACACATTCACTCCAACACCTGGGTATAAAGGCGAATTAACCTGAAGAATTACTTTATTATTCAATTAAGAAC
TGCAATCCACATCCTCACACCAATATCTTCCACTGTTACTGTGCAGTCATAATAAGAGTTGGGTTATGTGATTT
ATGCAAAATTGTTATTGGTGTGTTCTAATGATTTTTTCCAGGAATTCAAGTAAGTGAAGTACAAATACTTAGCA
CCATAGATTGTAAAAATAGAAAGAGGAAATGAGAAAACCTAATGTCGTTCTTGTACAGTTGAGTTTTGCTTCTTT
ATAAACTGTCTGTAAAAATCAGGGGTTGCTGTTAGACTGTCAAGCAGAAGTGATGGATGTTCAAGGAGGCAGGTT
GCCCCAAAGTGTTTTCTAACTTTCAAGTAGAGAACTTTATGCTCTAATAAGAAAAATACAACCTATTCTTAACCA
CCCCCCCCAAAACAGAGAAAAACATACATTTATGCATTTTAAAGATAAAAAAGTAGTTTCTCAAAAAATCTGAAG
TTCTCTGAAAACAGCTTATTAAAGTGCTGTTTTGTGGTGAAAATTGAAACCAATCCACTCACATTTCTATC
GGGTCTTGAAATTCTTGGTGGTGTGTACCATTCCTAGATGGCAGTGTTGCTTACTGAGTGTCAATGGCTTTT
TTCCCGTAAATGGAATCATGTTTTTCTCCCCAAAGTACAATAAAGCTGCCTTGTCTGCACCAAAACAAAAA
AAAAAAAAAAAAA

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FIGURE 2014

MTSGPGGPAAAAGGRKENHQWYVCNREKLCESLQAVFVQSYLDQGTQIFLNNSIEKSGWLFIQLYHSFVSSVFSL
FMSRTSINGLLGRGSMFVFSPDQFQRLKINPDWKTHRLLDLGAGDGEVTKIMSPHFEEIYATELSETMIWQLQK
KKYRVLGINEWQNTGFQYDVISCLNLLDRCDQPLTLLKDIRSVLEPTRGRVILALVLPFHPYVENVGKWEKPSE
ILEIKGQNWEEQVNSLPEVFRKAGFVIEAFTRLPLYLCEGDMYNDYYVLDDAVFVLKPV

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FIGURE 2015

GGCCGGCGCCTCCTCCTGGATTCACTCACTCGCTCTTTTCATTACGAAGGTAGTGAGGCCTAGTGGAAGCC**AT**
GGGAGAGCGCTCTCCCCGCCGCCGGCTTCTGTACTGGGTCTGGCGCGGGCACCGTGGCCTACCTAGCCCTGCGTAT
TTCGTA CTGCTCTTCACGGCCCTCCGGGTCTGGGGAGTGGGGAATGAGGCGGGGGTCTGGCCCCGGGGCTCGGAGA
GTGGGCAGTTGTACAGGTAGTACTGATGGAATTGGAAAATCATATGCAGAAGAGTTAGCAAAGCATGGAATGAA
GGTTGTCTTTATCAGCAGATCAAAGGATAAACTTGACCAGGTTTCCAGTGAAATAAAAGAAAAATTCAAAGTGGA
GACAAGAACCATTGCTGTTGACTTTGCATCAGAAGATATTTATGATAAAATTAAACAGGCTTGGCTGGTCTTGA
AATCGGCATCTTAGTGAACAACGTGGGAATGTCGTATGAGTATCCTGAATACTTTTTGGATGTTCTTGACTTGGA
CAATGTGATCAAGAAAATGATAAATATTAATATTCTTTCTGTTTGTAAGATGACACAATTGGTACTGCCTGGCAT
GGTGGAAGATCCAAAGGGCTATTCTGAACATTTTCATCTGGCAGTGGCATGCTCCCTGTCCCACTCTTGACCAT
CTATTCTGCAACCAAGACTTTTGTAGATTTCTTCTCTCAGTGCCTCCATGAGGAGTATAGGAGCAAGGGCGTCTT
TGTGCAGAGTGTCTGCCATACTTCGTAGCTACAAACTGGCTAAAATCCGGAAGCCAACCTTTGGATAAGCCCTC
TCCGGAGACGTTTGTGAAGTCTGCAATTAACAGTCTGGCCTGCAATCCGAACCAATGGATACCTGATCCATGC
TCTTATGGGCTCGATAATCTCAAACCTGCCTTCTTGGATTTATTTGAAAATAGTCATGAATATGAACAAGTCTAC
ACGGGCTCACTATCTGAAGAAAACCAAGAAGAACT**TAAG**CATGATAACTGCATTGTAACCTGGCCAGATGCTCCAG
CATATGCACGTTCACTGCAAAGCACCCCTACTGGTTTGGAAAATCTGACCTTGTCAATTTCAATAGTTATTAACATG
ACTAAATATTATCTTAATTAAGAGGAAAATAGAAGTTGCTTTTAGGGGTTTCTGACATATATTCTGGATACTATC
CGAGGTAATTTTGAAGTTTAATATAAATGCTCATATCAAATGAATATAGAATAATATTGTGGGAACACCTAAT
AGAAAGGAATACTATTATAGCAAATCACAGAATGATAGACTCAAGCATAAAACCTTGGCAGTTTTATCTGCTTCAA
AATGCCATTGATCATTATTCTGTATTTTCTCTGAAACTGATTATAAAAACCAATGTCCAGCTACTCTTTTGTTT
TTGACACTTGAAGAAATGGAGATCGATTTGATTTGTTTATAAGCAGACACACTGCAATTTACAAAGATCTCTTTA
CGGTTTTATAAAATTATCTTCCAGTTTGTACATTTATATGGAATTGTTCTTTATCAAGGGTAGCTAATGACATGA
AAATAATTGTGAAATATGGAATTATTTCTGACACATGAAGCCCACTAAACTATGCTTTTCTATAATGCATATTTCT
TTCTCAGTTTAAATGTATGTAAATATCGAAGCTATATGGTATGATTTATAAAGATAAATGGGCCAAAGTGATACAT
TGAGACTGGCAGCCATCTATGGTACCACTGAAACCCCTGACCCAGAAAAGTGGCTTGGCTTGGACACCCAGCTGCCT
TTGTTTCTGCATTAAACCAATATTGATCACACATATGACACAGGCTAGTCCTATAAAAGTAATGACTTCATAGAA
ATGGCATTATAATTTTTAAGTTGATACTCTACAGGTAGCTATTGATATAATTAGTTTTAATAAAACATGCTGCAA
CCATGGTATACAACAAAAATACATTTCTTTGGTGATTGAAATTAAGGCCGTATTTACAATGACTTAATATAAGAC
TGACTTTTATCCTGCTTCATAACTTGTATGGAGA ACTCACCAAGAAAGAATTCAATACTGTGAAATATGCAGCAA
GAAGATTGGTCTTTACCTAGGCTGTGTTTCTTAAGCTCTGAGTTTTTCAGCACCAGTAGATTGTATTAAAAGAAA
AAAAAATGGGGCCTTAGCTTCTGGCTTTTAATTTTGCCAGCTAAGGACATAAAACAAAAATAAACAAACAAAAAC
AAATAGCCATCTGCTATCAGCATCATTATGTAAAAGAAAAATATATTTTAGCCCCTAAAATTAGGAAGAATGTAAT
CTCAGAATAAAGGTTGTCATTTAAGTTGAATAAATATATAGCTTTATGAAAAACACAAAAA

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FIGURE 2016

MESALPAAGFLYWVGAGTVAYLALRISYSLFTALRVWVGNEAGVGPLGEWAVVTGSTDGIGKSYAEELAKHGM
KVVLI SRSKDKLDQVSSEIKEKFKVETRRTIAVDFASEDIYDKIKTGLAGLEIGILVNNVGMSYEYPEYFLDV PDL
DNVIKKMININILSVCKMTQLVLP GMVERSKGAILNISSGSGMLPVPLTTIYSATKTFVDFFSQCLHEEYRSKGV
FVQSVLPYFVATKLAKIRKPTLDKPS PETFVKSAIKTVGLQSR TNGYLIHALMGSIISNLPSWIY LKIVMNMNKS
TRAHYLKKT KKN

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FIGURE 2017

ACCACAGTGGTGTCCGAGAAGTCAGGCACGTAGCTCAGCGGCGGCCGCGGCGCGTGCGTCTGTGCCTCTGCGCGG
GTCTCCTGGTCCTTCTGCCATCATGCCGATGTTTCATCGTAAACACCAACGTGCCCCGCGCCTCCGTGCCGGACGG
GTTCTCTCCGAGCTCACCCAGCAGCTGGCGCAGGCCACCGGCAAGCCCCCCCAGTACATCGCGGTGCACGTGGT
CCCGGACCAGCTCATGGCCTTCGGCGGGCTCCAGCGAGCCGTGCGCGCTCTGCAGCCTGCACAGCATCGGCAAGAT
CGGCGGCGCGCAGAACCGCTCCTACAGCAAGCTGCTGTGCGGCCTGCTGGCCGAGCGCCTGCGCATCAGCCCGGA
CAGGGTCTACATCAACTATTACGACATGAACGCGGCCAATGTGGGCTGGAACAACCTCCACCTTCGCCTAAGAGCC
GCAGGGACCCACGCTGTCTGCGCTGGCTCCACCCGGGAACCCGCCGCACGCTGTGTTCTAGGCCCGCCACCCCA
ACCTTCTGGTGGGGAGAAATAAACGGTTTAGAGACT

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FIGURE 2018

MPMFIVNTNVPRASVPDGFELSELTQQLAQATGKPPQYIAVHVVPDQLMAFGGSSEPCALCSLHSIGKIGGAQNRS
YSKLLCGLLAERLRISPDRVYINYYDMNAANVGWNNSTFA

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FIGURE 2019

ACTGGAAGACCAGGCAGCCCAGCTGAAGGCAGTAAGCTCGGCTCACAGTCGCAGGAGAGTTCTGGGGTACACGGG
CAAAGGGGCTTGAGAAGGCCCGGAGGCGAAGCCGAAGAGAAGCAACTGTGCCCCGGAGAAGAGAAGCTCGCCCAT
TCCAGACTGGGAACCAGCTTTCAGTGAAGATGGCAGGGCCAGAACTGTTGCTCGACTCCAACATCCGCCTCTGGG
TGGTCCTACCCATCGTTATCATCACTTTCTTCGTAGGCATGATCCGCCACTACGTGTCCATCCTGCTGCAGAGCG
ACAAGAAGCTCACCCAGGAACAAGTATCTGACAGTCAAGTCCTAATTCGAAGCAGAGTCCTCAGGGAAAATGGAA
AATACATTCCCAAACAGTCTTTCTTGACACGAAAATATTATTTCAACAACCCAGAGGATGGATTTTTCAAAAAA
CTAAACGGAAGGTAGTGCCACCTTCTCCTATGACTGATCCTACTATGTTGACAGACATGATGAAAGGGAATGTAA
CAAATGTCCTCCCTATGATTCTTATTGGTGGATGGATCAACATGACATTCTCAGGCTTTGTCACAACCAAGGTCC
CATTTCCTACTGACCCTCCGTTTTTAAGCCTATGTTACAGCAAGGAATCGAGCTACTCACATTAGATGCATCCTGGG
TGAGTTCTGCATCCTGGTACTTCCTCAATGTATTTGGGCTTCGGAGCATTTACTCTCTGATTCTGGGCCAAGATA
ATGCCGCTGACCAATCACGAATGATGCAGGAGCAGATGACGGGAGCAGCCATGGCCATGCCCCGAGACACAAACA
AAGCTTCAAGACAGAGTGGAAGCTTTGGAGCTGACGGATCACCAGTGGGCACTAGATGATGTGGAAGAAGAGC
TCATGGCCAAAGACCTCCACTTCGAAGGCATGTTCAAAAAGGAATTACAGACCTCTATTTTTTTGAAGACCGAGCA
GGGATTAGCTGTGTCAGGAACCTTGAGTTGCACTTAACCTTGTAACCTTGTTTGGAGCTGGCACCTCTTGAAATA
AAAAGGAGGATGCACGAGCTGGCAGGCATGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2020

MAGPELLLLDSNIRLWVVLPIVITFFVGMIRHYVSILLQSDKKLTQEQVSDSQVLIRSRVLRENGKYIPKQSFLT
RKYYFNNPEDGFFKKTKRKVVPSPMTDPTMLTDMMKGNVTNVLPMLIGGWINMTFSGFVTTKVPPPLTLRFKP
MLQQGIELLTLDASWVSSASWYFLNVFGLRSIYSLILGQDNAADQSRMMQEQMTGAAMAMPADTNKAFKTEWEAL
ELTDHQWALDDVEEELMAKDLHFEGMFKKELQTSIF

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FIGURE 2021A

GGCCTCGCCTGCGGCCGCTCCCTCCGCCTCCTCCCCGCCCGAGCCCCAGTCAGCCCGTCTTCCTTCCCCTCCCT
TGCATGATGGAAACACCATGGCTGCGGCGGCCAGCTCTCTCTGACACAGTTATCAAGTGGGAATCCTGTATATG
AAAAATACTATAGACAGGTTGATACAGGCAATACTGGAAGGGTGTGGCTTCTGATGCTGCTGCTTTCCTGAAAA
AATCAGGGCTTCCAGACTTGATACTTGGAAGATTGGGATTTAGCCGACACAGATGGCAAAGGTATCCTGAACA
AACAAGAATTCTTTGTTGCTTTGCGTCTTGTGGCAGTGTCGCCAGAATGGATTGGAAGTTTCACTAAGTAGTTTGA
ACCTGGCTGTTCTCCACCAAGATTTTCATGATACCAGTAGTCCTTTGCTAATCAGTGGAACTCTGCAGCTGAGC
TCCCATGGGCTGTAAAACCTGAAGATAAGGCCAAATATGATGCAATATTTGATAGTTTAAAGCCAGTGAATGGAT
TTCTGTCTGGTGATAAAGTGAAACAGTGTTGCTCAACTCTAAGTTACCTGTGGATATCCTTGGAAAGAGTAAGAT
ATTATTTACTCCGAAATGTTTGGGAGTTGAGTGATATTGACCATGATGGAATGCTTGACAGAGATGAGTTTGCAG
TTGCCATGTTTTTGGTATACTGTGCACTGGAGAAAAGAACTGTGCCAATGTCCTTGCCCTCCAGCCTTGGTGCCAC
CATCTAAGAGAAAAACGTGGGTGTATCCCTGCAGAAAAAGCTAAATATGATGAAATCTTCCTGAAAACCTGATA
AAGATATGGACGGATTGTGTCTGGATTGGAGGTCCGTGAAATATTCTTGAAAACAGGTTTACCTTCTACCTTAC
TAGCCCATATATGGTCATTATGCGACACAAAGGACTGTGGGAAGCTTTCAAAGGATCAGTTTGCCTTGGCTTTTC
ACTTAATCAGTCAGAAGTTAATCAAGGGCATTGATCCTCCTCACGTTCTTACTCCTGAAATGATTCCACCATCAG
ACAGGGCCAGTTTACAAAAGAACATCATAGGATCAAGTCTGTGTCAGATTTCTCTGCTATTAAGGAAGTAGATA
CTCTTAACAATGAAATAGTTGACCTACAGAGGGAAAAGAATAATGTGGAACAGGACCTTAAGGAGAAGGAAGATA
CTATTAACAGAGGACAAGTGAGGTTGAGGATCTTCAAGATGAAGTTCAAAGGGAGAATACTAATCTGCAAAAAC
TACAGGCCCAGAAACAGCAGGTACAGGAACCTCCTTGATGAAGTGGATGAGCAGAAAGCCCAGCTGGAGGAGCAAC
TCAAGGAAGTCAGAAAGAAATGTGCTGAGGAGGCCCACTGATCTCTTCTCTGAAAGCTGAATTAAGTAGTCAGG
AATCGCAGATCTCCACTTATGAAGAAGAATTGGCAAAAGCTAGAGAAGAGCTGAGCCGTCTACAGCAAGAAACAG
CAGAATTGGAGGAGAGTGATAGAGTCAGGGAAGGCTCAGTTGGAACCTCTTCAGCAGCACCTACAAGATTCACAAC
AGGAAATTAGTTCAATGCAATGAACTGATGGAAATGAAAGATTGGAAAATCATAATAGTCAGTTAAATTGGT
GCAGTAGCCACACAGCATTCTTGTAACCGAGCTACAGATTATTGCAGCCTCAGCACCAGCAGCAGTGAACAG
CCAACCTTAATGAACATGTTGAAGGCCAGAGCAACCTAGAGTCTGAGCCCATACACCAGGAATCTCCAGCAAGAA
GTAGTCCTGAACTACTGCCTTCTGGTGTGACTGATGAAAATGAGGTGACTACAGCTGTTACTGAAAAAGTTTGT
CTGAACTCGACAATAATAGACATTCAAAAGAGGAAGATCCATTTAATGTAGACTCAAGTTGCTGACAGGTCAG
TTGCAGATACAACTTGGATTTTTTCCAGTCTGATCCTTTTGTGGCAGTGATCCTTTCAAGGATGATCCTTTTG
GAAAAATCGATCCATTTGGTGGTGATCCTTTCAAAGGTTGAGATCCATTTGCATCAGACTGTTTCTTCAGGCAAT
CTACTGATCCTTTTGCCACTTCAAGCACTGACCCTTTCAGTGCAGCCAACAATAGCAGTATTACATCGGTAGAAA
CGTTGAAGCACAAATGATCCTTTTGCTCCTGGTGGAAACAGTTGTTGCAGCAAGCGATTTCAGCCACAGACCCCTTTG
CTTCTGTTTTTGGGAATGAATCATTGAGAGGTGGATTGCTGACTTCAGCACATTGTCAAAGGTCAACAATGAAG
ATCCTTTTTCGTTTCAGCCACATCGAGCTCTGTGTCAGCAACGTAAGTATTACAAAAATGTATTTGAGGAAACATCGG
TCAAAAAGTGAAGATGAACCCCCAGCACTGCCACCAAAGATCGGAACCTCAACAAGACCCCTGCCCTCTACCACCTG
GGAAAAGATCCATCAACAAATTGGATTCTCCTGATCCCTTTAACTGAATGATCCATTTACGCCCTTTCCAGGCA
ACGATAGCCCCAAAGAAAAAGATCCTGAAATATTTGTGATCCATTCACTTCTGCTACTACCACTACCAATAAAG
AGGCTGATCCAAGCAATTTTGCCAACTTCAGTGCTTATCCCTCTGAAGAAGATATGATCGAATGGGCCAAGAGGG
AAAGTGAGAGAGAGGAAGAGCAGAGGCTTGCCCGACTAAATCAGCAGGAACAAGAAGACTTAGAACTGGCTATTG
CACTCAGCAAATCTGAGATATCAGAAGCATGAAGAATTCTCTTGTCTTTGGCAACAATATAGTATTCTTCTTCC
TGAATACTGAACTATTTACAATGTGTATCAAACTACCTGTGAGCATGGGAATACAAAAGGTTTGAGATTCTTG
TAAATGTGACAAAATTTTAGGATTTTTTTTTTTTCTTCATTACAGATTTCGCTTTTTTTTTTTTTTCTTATAAAAG
CCGTAACCCAGTCAGACAAATTCACCTTCACTTAGGCCCTGTCTGGTATACATTTACTGTGAGCTTTTGCCTG
CCTGTGCTATTTTACTTGTAAAGCTAGAGCACCCAAGCTTCTGCCTTCTGGAATATAGAGAAATAGTTTACCCCT
GCACTACCCGTGTTCTGTAGTTATTCTGATGATAGCCAGTGAGGTTCTTAAAGTTTGAGTATTCTCCCCTGATTG
GAATGGTTGAGTGAGGGTAAGGGAAGAATATCTTATTTCTTTTATGATTGGTGAAATTGGCTAAAGTGCATTT
TTAAATTTCTCTACTTAATTTGTTTTTTCAGAGATAAGGAAAAATATTTTGCACAGATTTACTCCACTATGGAAA
AGGGATGCTGTAGGTTGAACCATTATAGCCTCAGATTCGATCTTTTCTAACTAAAAATATTAAGCCTCATGTG
TGAAATAAAATTTTAAAAAGATTTATCTGGATTTAGAGAATTTTAGATCAACAGATACCTCTCAGTGTTGTTGCT
AATTAATAAAAAATCAGTTTCTTACAAATAAAGTTTGTAAAGAAATGTTTCAATTTAAGTGATAGATAGTGGAGAAA

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FIGURE 2021B

ATTTATCACCTAAAATATACCCATCAGTATAAGGCAAGCAAAAGTCTTAACATGGCAGCCATTCTGCCTTTGCCG
TGGCCCTGTCCTGTTTAGTTCTTAGTGGGTTAATTTTTGTACTTTTGCAGAAGAACTTCAGCAAGCTAGAACTG
GAAGGTACTTTAATTTTTTCATATATATTTGTTTTTTTTTTTTTAATGAAGGCTCATTCTTGAATGTAAAAAC
TTTCACTGAATACAAATAGAAAAAGTGATGTGTTTTATATCATATTGCTTTTTGTCCATCTTTGTGGTTTTAGTTT
ATTTACTCACTTCATGTTTTTCACCTATAAAAATTGTCAAGCTAGCAAAAAAACTCTTGTTTTTTAATTGGGAGA
GAAGAGACCTGCCAGATTATCAGACCTCTTCATGTTAAAAGACCATCTCCTGTAAAACCTGACCTAGTGGACAAGC
TGAATTTGAAATAGACTGTGAAGTAAGCTGTAACTTGTCATTTTAATTTTTGTTTAAACACGGTTACTGACTTAGAT
GATGTATTAAATACCAAGATAAAGAAAAATGCACCTAAAATCTAATTAGAATTCTCTGGGTCACCAAGTCAAGGT
GGTATTGATCTGTGTTAATCTGAGTAACTTATTGCCTAGCCTATAAATAAATTCCAAAATATCCAATTCATTTCT
TCTTGAAATGGTGCTTGTTTTGTTTTCTTTCCATTACACAATTAGACTCCTACAGTTTAAAACAAACTTTAAACC
ACTATCTTGCACTGCTAACTTTTTTCTACCTTTGTAAATAGAAACATTTCTGCATAAAAGTCATACATATGAAGC
AAGGGCTGAATCATAATCACAAGGCTTAATTTTGATAAACGAATCCAGTGACCTAAGGATTTTCTGCAAAATTTG
ACTGGGAGTTGTGATAGGTGGTATTTTTGTTTATTTTCTTCCTCTTACTCCTTAGGATAAAGGTAAGTTGACTTG
AACAACTTTCTTTTGCACTGGGAAAATAAGCAAATGTTTAAATGCTTCAAAAAAATTTCAATTAACTCAAATA
TTAAATATCTATAACTTATAAACACCAACTTTCAATGTAATAAATGTATCCTAATCTTATGTATGTTTAACTGGA
TTACATAGATTTTTATCTTTTGTTAAAATGTGTATACCCCGTGGACCAACATAATATTAAAGTATGTATATATTA
TATAAATATATATGTATATGTGCTCGCTTGTTAGGATGAATGTCTTAGAGTCGTTTGTTGGTATTTTATGTTGTT
GACTCTGGCTCCAGGGCCTGTGCTTGAAAAGGACAGATAAGTATTGCCAGAGCTAAGTGGCACTACTTACAAAG
TTTTAAATGTCTTCTACATACTGATTTCATGTTTATTTGAGCTCTCTTTATAGAATTTTCTCTTAAAGTTTCAAAC
CTCTAAGTTGTAGCCTGTAATTATGAGAACAGTAACTTTAAGTAATAATAAAGAATCCCATCCATATATCCAAT
TTGCAATTGAGTTTTGCATGGTTCTCTGATTATGTCCATGCTGTGTCCAAGGAGGAGTAGGTACATACAATCAGC
ACAGATTAATATATGTAAAGGGTTTGGGACAGCACCTGGTATAGAATAAATAAATAAATGTAACTATTCAAAAAA
AATCTATGTCGGGTGCGGAGAAAGAGGTAATGAAATG

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FIGURE 2022

PRLRPLPPPPRPEPQSARLPSPFLHDGNTMAAAQLSLTQLSSGNPVYEKYYRQVDTGNTGRVLASDAAAFLLKK
SGLPDLILGKIWDLADTDGKGILNKQEFFVALRLVACAQNGLEVSLSSLNLAVPPPRFHDTSPLLISGTSAAEL
PWAVKPEDKAKYDAIFDSLSPVNGFLSGDKVKPVLNSKLPVDILGRVRYLLRNWELSDIDHDGMLDRDEFV
AMFLVYCALEKEPVPMSLPPALVPPSKRKTWVVSPEAKAKYDEIFLKTDKMDMGFVSGLEVREIFLKTGLPSTLL
AHIWSLCDTKDCGKLSKDQFALAFHLISQKLIKIDPPHVLTPMIPPSDRASLQKNIIGSSPVADFSAIKELDT
LNNEIVDLQREKNNVEQDLKEKEDTIKQRTSEVQDLQDEVQRENTNLQKLQAQKQQVQELLDELDEQKAQLEEQ
KEVRKKCAEEAQLISSLKAELTSQESQISTYEEELAKAREELSRLQQETAEELESVESGKAQLEPLQQHLQDSQQ
EISSMQMKLMEMKDLNHNHNSQLNWCSSPHSILVNGATDYCSLSTSSSETANLNEHVEGQSNLESEPIHQESPARS
SPELLPSGVTDENEVTTAVTEKVCSELDNNRHSKEEDPFNVDSSSLTGPVADTNLDFFQSDPFFVGSDPFFKDDPFG
KIDPFGGDPFFKGSDPFFASDCFFRQSTDEFATSSSTDPFSAANNSSITSVETLKHNDPFFAPGGTVVAASDSATDPFA
SVFGNESFGGGFADFSTLSKVNNEDPFRSATSSSVSNVITKNVFEETSVKSEDEPPALPPKIGTPTRPCPLPPG
KRSINKLDSPDPFFKLNDPFPFPFGNDSPKEKDPEIFCDPFTSATTTTNKEADPSNFFANFSAYPSEEDMIEWAKRE
SEREEEQRLARLNQQEQEDLELAIALSKSEISEA

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FIGURE 2023

CAGAGCTGCTGTC**ATG**GCGGCCGCTCTGTGGGGCTTCTTTCCCGTCCTGCTGCTGCTGCTGCTATCGGGGGATGT
CCAGAGCTCGGAGGTGCCCGGGGCTGCTGCTGAGGGATCGGGAGGGAGTGGGGTCGGCATAGGAGATCGCTTCAA
GATTGAGGGGCGTGCAGTTGTTCCAGGGGTGAAGCCTCAGGACTGGATCTCGGCGGCCCGAGTGCTGGTAGACGG
AGAAGAGCACGTCGGTTTTCTTAAGACAGATGGGAGTTTTGTGGTTCATGATATACCTTCTGGATCTTATGTAGT
GGAAGTTGTATCTCCAGCTTACAGATTTGATCCCGTTCGAGTGGATATCACTTCGAAAGGAAAAATGAGAGCAAG
ATATGTGAATTACATCAAAACATCAGAGGTTGTCAGACTGCCCTATCCTCTCCAAATGAAATCTTCAGGTCCACC
TTCTTACTTTATTAAAAAGGGAATCGTGGGGCTGGACAGACTTTCTAATGAACCCAATGGTTATGATGATGGTTCT
TCCTTTATTGATATTTGTGCTTCTGCCTAAAGTGGTCAACACAAGTGATCCTGACATGAGACGGGAAATGGAGCA
GTCAATGAATATGCTGAATTCCAACCATGAGTTGCCTGATGTTTCTGAGTTCATGACAAGACTCTTCTCTTCAA
ATCATCTGGCAAATCTAGCAGCGGCAGCAGTAAACAGGCAAAAGTGGGGCTGGCAAAGGAGG**TAG**TCAGGCCG
TCCAGAGCTGGCATTTCACAAACACGGCAACACTGGGTGGCATCCAAGTCTTGAAAACCGTGTGAAGCAACTA
CTATAAACTTGAGTCATCCCGACGTTGATCTCTTACAACGTGTGTATGTTAACTTTTTAGCACATGTTTTGTACTT
GGTACACGAGAAAACCCAGCTTTCATCTTTTGTCTGTATGAGGTCAATATTGATGTCACTGAATTAATTACAGTG
TCCTATAGAAAATGCCATTATAATAATTATATGAACACTACTATACATTATGTATATTAATTAAAACATCTTAATCCA
GAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2024

MAAALWGFFPVLLLLLLSGDVQSSEVPGAAAEGSGGSGVGIGDRFKIEGRAVVPGVKPDWISAARVLVDGEEHV
GFLKTDGSFVVHDIPSGSYVVEVVSPAYRFDPVRVDITSKGKMRRARYVNYIKTSEVVRLPYPLQMKSSGPPSYFI
KRESWGWTDFLMNPMVMMMLVLLIFVLLPKVVNTSDPDMRREMEQSMNMLNSNHELPDVSEFMTRLFSSKSSGK
SSSGSSKTGKSGAGKRR

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FIGURE 2025

GCGGAGCTCCGCATCCAACCCCGGGCCGCGGCCAACTTCTCTGGACTGGACCAGAAGTTTCTAGCCGGCCAGTTG
CTACCTCCCTTTATCTCCTCCTTCCCTCTGGCAGCGAGGAGGCTATTTCCAGACACTTCCACCCCTCTCTGGCC
ACGTCACCCCGCCTTTAATTCATAAAGGTGCCCGGCGCCGGCTTCCCGGACACGTCGGCGGGCGGAGAGGGGCC
ACGGCGGGCGGCCCGGCCAGAGACTCGGCGCCCGGAGCCAGCGCCCCGCACCCGCGCCCCAGCGGGCAGACCCCAA
CCCAGC**ATG**AGCGCCGCCACCCACTCGCCCATGATGCAGGTGGCGTCCGGCAACGGTGACCGCGACCTTTGCC
CCCGGATGGGAGATCAAGATCGACCCGAGACCCGGCTGGCCCTTCTTCGTGGACCACAACAGCCGCACCACTACG
TGGAACGACCCGCGCGTGCCTCTGAGGGCCCCAAGGAGACTCCATCCTCTGCCAATGGCCCTTCCCGGGAGGGC
TCTAGGCTGCCGCCTGCTAGGGAAGGCCACCCTGTGTACCCCCAGCTCCGACCAGGCTACATTCCCATTCTGTG
CTCCATGAAGGCGCTGAGAACCGGCAGGTGCACCTTTCCATGTCTATCCCCAGCCTGGGATGCAGCGATTCCGA
ACTGAGGCGGCAGCAGCGGCTCCTCAGAGGTCCAGTCACTCTGCGGGGCATGCCAGAAACCACTCAGCCAGAT
AAACAGTGTGGACAGGTGGCAGCGGCGGCGGCAGCCAGCCCCAGCCTCCCACGGACCTGAGCGGTCCCAGTCT
CCAGCTGCCTCTGACTGCTCATCCTCATCCTCCTCGGCCAGCCTGCCTTCCCTCCGGCAGGAGCAGCCTGGGCAGT
CACCAGCTCCCGCGGGGGTACATCTCCATTCCGGTGATACACGAGCAGAACGTTACCCGGCCAGCAGCCAGCCC
TCCTTCCACCAAGCCCAGAAGACGCACTACCCAGCGCAGCAGGGGGAGTACCAGACCCACCAGCCTGTGTACCAC
AAGATCCAGGGGGATGACTGGGAGCCCCGGCCCCCTGCGGGCGGCATCCCCGTTCAAGTCATCTGTCCAGGGTGCA
TCGAGCCGGGAGGGCTCACCAGCCAGGAGCAGCACGCCACTCCACTCCCCCTCGCCCATCCGTGTGCACACCGTG
GTCGACAGGCCTCAGCAGCCCATGACCCATCGAGAACTGCACCTGTTTCCAGCCTGAAAACAAACCAGAAAGT
AAGCCAGGCCCAGTTGGACCAGAACTCCCTCCTGGACACATCCCAATTCAAGTGATCCGCAAAGAGGTGGATTCT
AAACCTGTTTCCAGAAAGCCCCACCTCCCTCTGAGAAGGTAGAGGTGAAAGTTCCCCCTGCTCCAGTTCCTTGT
CCTCCTCCCAGCCCTGGCCCTTCTGCTGTCCCTCTTCCCCCAAGAGTGTGGCTACAGAAGAGAGGGCAGCCCCC
AGCACTGCCCCCTGCAGAAGCTACACCTCCAAAACCAGGAGAAGCCGAGGCTCCCCCAAAACATCCAGGAGTGCTG
AAAAGTGGAAGCCATCCTGGAGAAGGTGCAGGGGCTGGAGCAGGCTGTAGACAACCTTTGAAGGCAAGAAGACTGAC
AAAAAGTACCTGATGATCGAAGAGTATTTGACCAAAGAGCTGCTGGCCCTGGATTCAAGTGGAACCCGAGGGACGA
GCCGATGTGCGTCAGGCCAGGAGAGACGGTGTGAGGAAGGTTAGACCATCTTGAAAAAATTGAACAGAAAGCC
ATTGATGTCCCAGGTCAAGTCCAGGTCTATGAACTCCAGCCCAGCAACCTTGAAGCAGATCAGCCACTGCAGGCA
ATCATGGAGATGGGTGCCGTGGCAGCAGACAAGGGCAAGAAAAATGCTGGAAATGCAGAAGATCCCCACACAGAA
ACCCAGCAGCCAGAAGCCACAGCAGCAGCGACTTCAAACCCAGCAGCATGACAGACACCCCTGGTAACCCAGCA
GCACCG**TAG**CCTCTGCCCTGTAAAAATCAGACTCGGAACCGATGTGTGCTTTAGGGAATTTTAAGTTGCATGCAT
TTCAGAGACTTTAAGTCAGTTGGTTTTTATTAGCTGCTTGGTATGCAGTAACCTTGGGTGGAGGCAAAACACTAAT
AAAAGGGCTAAAAAGGAAAATGATGCTTTTCTTCTATATTCTTACTCTGTACAAATAAAGAAGTTGCTTGTGTGTT
TGAGAAGTTTAACCCGTTGCTTGTCTGCAGCCCTGTCTACTTGGGCACCCCCACCACCTGTAGCTGTGGTTG
TGCACTGTCTTTTGTAGCTCTGGACTGGAGGGGTAGATGGGGAGTCAATTACCCATCACATAAATATGAAACATT
TATCAGAAATGTTGCCATTTTAATGAGATGATTTTCTTCATCTCATAATTAAATACCTGACTTTAGAGAGAGTA
AAATGTGCCAGGAGCCATAGGAATATCTGTATGTTGGATGACTTTAATGCTACATTTTAAAAAAGAAAATAAAG
TAATAATATAACTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2026

MSAATHSPMMQVASGNGDRDPLPPGWEIKIDPQTGWFFFDHNSRTTWTNDPRVPSEGPKETPSSANGPSREGSR
LPPAREGHPVYPQLRPGYIPIPVLHEGAENRQVHPFHVYPQPGMQRFRTAAAAAPQRSQSPLRGMPETTQPDKQ
CGQVAAAAAAQPPASHGPERSQSPAASDCSSSSSSASLPSSGRSSLGSHQLPRGYISIPVIHEQNVTRPAAQPSF
HQAQKTHYPAQQGEYQTHQPVYHKIQGDDWEPRPLRAASPFRRSSVQGASSREGSPARSSTPLHSPSPIRVHTVVD
RPQQPMTHRETAPVSQPENKPESKPGPVGPELPPGHIPIQVIRKEVDSKPVSQKPPPPSEKVEVKVPPAFVPCPP
PSPGPSAVPSSPKSVATEERAAPSTAPAEATPPKPGAEAPPKHGVLKVEAILEKVQGLEQAVDNFEGKKTDDK
YLMIEEYLTKEALLDSVDPEGRADVRRQARRDGVRRVQTILEKLEQKAIDVPGQVQVYELQPSNLEADQPLQAIM
EMGAVAADKGKKNAGNAEDPHTETQQPEATAAATSNPSSMTDTPGNPAAP

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FIGURE 2027

GGCACGAGGGTTTTCTCCGCGGGCGCCTCGGGCGGAACCTGGAGATA**ATG**GGCAGCACCTGGGGGAGCCCTGGCT
GGGTGCGGCTCGCTCTTTGCCTGACGGGCTTAGTGCTCTCGCTCTACGCGCTGCACGTGAAGGCGGCGCGCGCCC
GGGACCGGGATTACGCGCGCTCTGCGACGTGGGCACCGCCATCAGCTGTTTCGCGCGTCTTCTCCTCCAGGTGGG
GCAGGGGTTTCGGGCTGGTGGAGCATGTGCTGGGACAGGACAGCATCCTCAATCAATCCAACAGCATATTCGGTT
GCATCTTCTACACACTACAGCTATTGTTAGGTTGCCTGCGGACACGCTGGGCCTCTGTCTGATGCTGCTGAGCT
CCCTGGTGTCTCTCGCTGGTTCTGTCTACCTGGCCTGGATCCTGTTCTTCGTGCTCTATGATTTCTGCATTGTTT
GTATCACCACCTATGCTATCAACGTGAGCCTGATGTGGCTCAGTTTCCGGAAGGTCCAAGAACCCCAGGGCAAGG
CTAAGAGGCAC**TGAG**CCCTCAACCCAAGCCAGGCTGACCTCATCTGCTTTGCTTTGGCATGTGAGCCTTGCCCTAA
GGGGGCATATCTGGGTCCCTAGAAGGCCCTAGATGTGGGGCTTCTAGATTACCCCTCCTCCTGCCATACCCGCA
CATGACAATGGACCAAATGTGCCACACGCTCGCTCTTTTTTACACCCAGTGCCTCTGACTCTGTCCCCATGGGCT
GGTCTCCAAAGCTCTTTCATTGCCAGGGAGGGAAGGTTCTGAGCAATAAAGTTTCTTAGATCAATCAAAAAA
AAA

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FIGURE 2028

MGSTWGSFPGWVRLALCLTGLVLSLYALHVKAARARDRDYRALCDVGTAISSRVFSSRWGRGFGLVEHVLGQDSI
LNQSNSIFGCIFYTLQLLGCLRTRWASVLMMLSSLVSLAGSVYLAWILFFVLYDFCIVCITTYAINVSLMWLSF
RKVQEPQGKAKRH

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FIGURE 2029

TCCCTGCTCACGAGTTCAGGGCTCCTGGGCGGCCGCTTTTTCCAGTTCAGGTGTGCAGAAAGTGTCTCTCCCCA
CGCGCGGCGGGCTGCACTTGGTCGCTGGCTCCGAGATCGCGCGGGGCCGCCGGAAGCCCAAGACGGTACCGGGGG
CCGCAGCGCAGCCGGCGCCGCCCTCCGCCCTCCCCAACAGCAGGCCGAGTCCCGTAGCATCCGGTAGGGAAATGG
TCGTGCTTTTCGGTCCCCGCCGAAGTCACCGTGATCCTGTTAGATATCGAAGGTACCACAACCCCGATTGCTTTTCG
TGAAGGACATTTTATTTCTTACATCGAAGAAAAATGTTAAAGAGTATCTGCAGACACATTGGGAAGAAGAGGAGT
GCCAGCAGGATGTCAGTCTTTTGAGGAAAACAGGCTGAAGAGGACGCCACCTGGATGGGGCTGTTCTTATCCCTG
CAGCATCTGGGAATGGAGTGGATGATCTGCAACAGATGATCCAGGCCGTGGTAGATAATGTGTGCTGGCAGATGT
CCCTGGATCGAAAGACCACTGCACTCAAACAGCTGCAGGGCCACATGTGGAGGGCGGCATTACAGCTGGGCGCA
TGAAAGCAGAGTTCTTTGCAGATGTAGTTCCAGCAGTCAGGAAGTGGAGAGAGGCCCGGAATGAAGGTGTACATCT
ATTCTCAGGGAGTGTGGAGGCACAGAACTGTTATTTCGGGCATTCTACGGAGGGAGATATTCTTGAGCTTGTTG
ATGGTCACTTTGATAACCAAGATTGGACACAAAGTAGAGAGTGAAAGTTACCGAAAGATTGCAGACAGCATTTGGGT
GCTCAACCAACAACATTTTGTCTGACAGATGTTACTCGAGAGGCCAGTGTGCTGAGGAAGCAGATGTGCACG
TAGCTGTGGTGGTGGAGACCAGGCAACGCAGGATTAACAGATGATGAGAAGACTTACTACAGCCTCATCACATCCT
TCAGTGAACATATACCTGCCTTCTCAACCTTAGAGAAGGGTTGTTAAGGCAGACCGCCCTGTTCCCCAGAGTTGTC
CCTGTAGTGTCTAGGTTTATTCTAATGGTAAAAGTAACTTACTTAAAAAACATATGTACACATATGTATGCAAGT
ATGTATATATGTGTATGCTCAGATTAACCTCCATAGGTACATAAGTGAAAGAGTCTCAGTTCAGTGAACACAAAA
CTTATTTAAAGATGCTTTATATGTAGAAATTGTTCAAATCATACTCTACCCTTAGTGAGGGCAAAGTGTAGTTG
GTAGAAGAAATTGCTAAATACCTATCTAATGTGCTATGTTTATCAAATCGTGTAATAAATGGAAAGCTAGTTTT
GAGAAATTATTCAGAAGCCTTGTTATTTTAAAAATGAAATATTTCAAAGACTGAATATTTCAAAGAAAAATGAAT
AATTCATTGCCCTTGATTTAGAAAGATTATAACAGCTGTATTTCATATTTGCCTCCTTATATATATCAAAGACC
AAGGTATTTCTTCTGCTTCAAAGAACAATAATGGGAAAGAAAACCTCACTTGAGTCTTGATCAAACAAGTGTCT
TTTACTTAAGAAGAACTTGTAATCATTGTGGCACCCACAGCAAGCAGTTGCCTTACCAGTGAAAAAGGTGCAC
TGAGGTAACATCTAAAACAGAGATGTGGTTCTTAATGTTTAAACAGAACAGTTCTAATCCTGCCACGTGTTATCAT
TATAGATTTTATAGTTGCCTTTCTAACTACTTAGCACAGTTTGAGAATACGTTAATTGCTATTTACTATTTAAAA
AGTTTTACTGAAATCAGTCCATAACATTAAGATGAGCCCTAATATGTAAGATTTTCTCTGGAATGGATGTGAGA
AATGTAAATTTTATAACAGCAGTATTTATCCTGGTTTAAATCTAATACGATGTCATGTTAATTTTCATGTTGTGAT
TAATAAAAGCATTTTTTCTTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2030

MVVLSPAEVTVILLDIEGTTTPIAFVKDILFPYIEENVKEYLQTHWEEEEECQQDVSLLRKQAEEDAHLDGAVPI
PAASGNGVDDLQQMIQAVVDNVCWQMSLDRKTTALKQLQGHMWRAAFTAGRMKAEFFADVVPVRKWREAGMKVY
IYSSGSVEAQKLLFGHSTEGDILELVDGHFDTKIGHKVESESyrkiADSIGCSTNNILFLTDVTREASAAEEADV
HVAVVVRPGNAGLTDDEKTYYSLITSFSELYLPSSST

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FIGURE 2031

TGACGCATACTATAGCGCTGTTTTCTGCACTGATAAACGAAAAGCAATCCACCAGGTCTCGGCAGCTAACTTTC
CGGCACTACTTATGCCCCGAGCGTGTCGTCCCAGTGCGCAAGTGCAGCAGGTGGCTACGGAGGGGCGCGGGAGGAA
GAGGAGGAGGAGGAGGAGGCTGGGTGGGGCCGGCGCAAGTGCTGTGATGCGGTTCCGGGCAGGGTTCTGTAGAAT
CTGAATACCAGTTTCCGAGCGGCAAGGCAGCGATGGCGATTTTTAGTGTGTATGTGGTGAACAAAGCTGGCGGCT
TGATTTACCAGTTGGACAGCTACGCGCCACGGGCTGAGGCTGAGAAAACTTTCAGTTATCCGCTGGATCTGCTGC
TCAAGCTACACGATGAGCGTGTTGGTTGCTTTCGGCCAGCGGGACGGCATCCGAGTGGGTCTATGCAGTGCTGG
CCATCAATGGCATGGACGTGAATGGCAGGTACACGGCCGACGGGAAAGAGGTGCTGGAGTATCTGGGTAAACCCTG
CTAATTACCCGGTGTCCATTTCGATTTGGCCGGCCCCGCCTCACTTCTAATGAGAAGCTTATGCTGGCCTCCATGT
TCCACTCGCTCTTTGCCATCGGCTCCCAGCTGTCTCCTGAACAGGGAAGCTCAGGCATTGAGATGCTGGAGACAG
ACACATTCAAATTGCACTGCTACCAGACACTGACAGGGATCAAGTTTGTGGTTCTAGCAGATCCTAGGCAAGCTG
GAATAGATTCTCTTCTCCGAAAGATTTATGAGATTTACTCAGACTTTGCCCTCAAGAATCCATTCTATTCCTTAG
AAATGCCTATCAGGTGTGAGCTCTTTGACCAGAACCTGAAGCTAGCTCTGGAGGTGGCAGAGAAGGCTGGAACCT
TTGGACCTGGGTCATAGGCTGAACCTGTTATGGACCCCCAAATTCTGAGAGTTCCTGCAACAAGAATACTGCTGT
TGACACTCCAGTGGAATCCCAGCAGCCTTGTTAGTGCACCTGAAAGTGGGAGAATGCTGACCTGATGACTTGT
ACTGATTCCTGAGCCTTAACACTGTGCTCTTTCCTTCTGTATATAACCATGGTCTTACTTTCCAACCTCTGTACAGA
TTTATTTATGGAGGAGCTAGGTCCATAAATGTTGTAATAAATATTCCTTTGATCTTGGTGTTGCGTAAAAAAA
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 2032

MAIFSVYVVKAGGLIYQLDSYAPRAEAEKTF SYPLDLLLKLHDERVLVAFGQRDGIRVGHAVLAINGMDVNGRY
TADGKEVLEYLGNPANYPV SIRFGRPRLTSNEKLMLASMFHSLFAIGSQLSPEQGSSGIEMLETDTFKLHCYQTL
TGIKFVVLADPRQAGIDSLLRKIYEIYSDFALKNPFYSLEMPIRCELFQNLKLALEVAEKAGTFGPGS

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FIGURE 2033

GGCCACGAGGGGAAATTGACGAACACGTGACGCGGTCTGGGCGGACCACTGCAGACTGAGCGGTGGACCGAATTGG
GACCGCTGGCTTATAAGCGATC**ATC**TTTCTCCAGTATTACCTCAACGAGCAGGGAGATCGAGTCTATACGCTGAA
GAAATTTGACCCGATGGGACAACAGACCTGCTCAGCCCATCCTGCTCGGTTCTCCCCAGATGACAAATACTCTCG
ACACCGAATCACCATCAAGAAACGCTTCAAGGTGCTCATGACCCAGCAACCGCGCCCTGTCCTC**TGA**GGGTCCCT
TAAACTGATGTCTTTTCTGCCACCTGTTACCCCTCGGAGACTCCGTAACCAAACCTCTTCGGACTGTGAGCCCTGA
TGCCTTTTTGCCAGCCATACTCTTTGGCATCCAGTCTCTCGTGGCGATTGATTATGCTTGTGTGAGGCAATCATG
GTGGCATCACCCATAAAGGGAACACATTTGACTTTTTTTTCTCATATTTTAAATTACTACAAGATTATTAAAGAT
AAAATGATTTTGAAAAACAAAAAAAAAAAAA

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FIGURE 2034

MFLQYYLNEQGDRVYTLKKFDPMGQQTCSAHPARFSPDDKYSRHRITIKKRFKVLMTQQPRPVL

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FIGURE 2035

GAAGTCCTGGTAACTCTGGTCCTTGTTCCCGTCTGGATACCAGCTTCCTTCAGCAGCGCAGGCGGTTCGGTCCCTGA
GGCCCGTGGAAGGAGTCAAACCTTGCGGGAATTTTGCAGTTTATCTGCAGGGCTGTTGTTTCCAGCAAGACCCAAA
GCTAGAAAAGGAGGAGGAAGAACTGACCCGATCAGTGCCAGAAGTCATTGTATTCAAAGAAGAATAAGCAAGAA
AGAAAAGAAGGAAGGAAGAGAGGTAGACAGATACAAGATGAAATCCTGTCAAAAAATGGAAGGAAAACCAGAAAA
TGAGAGTGAACCAAAGCATGAGGAAGAGCCAAAGCCTGAGGAAAAGCCAGAAGAGGAGGAGAAGCTAGAGGAGGA
GGCCAAAGCAAAAGGAACTTTTAGAGAAAGGCTGATTCAATCTCTCCAGGAGTTTAAAGAAGATATACACAACAG
GCATTTAAGCAATGAAGATATGTTTAGAGAAGTGGATGAAATAGATGAGATAAGGAGAGTCAGAAACAACTTAT
AGTGATGCGTTGGAAGGTTAATCGAAACCATCCTTACCCCTATTTAATGTAGTTTACCTTGATTTTTATCTGATA
TTAACAATACCATATAGCTTGCTTTTTATTAGCATTTCCTGATATTCCTTTGTCCATATTTCTACTTATAACCTG
TTGCTATTAATGGTTTTAGATGTATCTCTTGTTATCTGCATCTCATTGTTTATTGTATTTGAACCAATCTACAA
GTCTCTGCTTTTTAATAAAAGAACTTTACACATTTGTAAAAAAGAGGTTCTTGGAAGATATAAAATGGAAAAAG
GCTAAGTAATATGTGAATATCATATTTTTTGAAAGGTAAAAAGTACATTTGTATATTACATATATGGACATAACTT
GTGAAGGATGAAAGAAAGTCAGCCTCTCGGTGGTGGGATTATGAATGATTTTTCTCCTTTTGCTTGTTAGTATTT
TCTATATTCTAAAATTAACACACATTATTATAGCTAGAATATAAAAGTTTTATAAAAAAAAAA

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FIGURE 2036

MKSCQKMEGKPENESSEPKHEEEPKPEEKPEEEKLEEEAKAKGTFRERLIQSLQEFKEDIHNRHLSNEDMFREVD
EIDEIRRVNRKLIVMRWKVNRRNHPYPYLM

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FIGURE 2037

GAATTCCGAGCTTTTTATTCTAAGAGGAGAAAAATCAGTAACGGGAGAAGCAGGAGGATGTCCAGAAGAAATTTT
ATCCCTTGCTCTCGCCCCTACTCTTTCTGGTGTTAGATCGAGCTACCCTCTAAAAGCAGTTTAGAGTGGTAAAAA
AAAAAAAAACACACCAAACGCTCGCAGCCACAAAAGGGATGAAATTTCTTCTGGACATCCTCCTGCTTCTCCCGT
TACTGATCGTCTGCTCCCTAGAGTCCTTCGTGAAGCTTTTTATTCTAAGAGGAGAAAAATCAGTCACCGGCGAAA
TCGTGCTGATTACAGGAGCTGGGCATGGAATTGGGAGACTGACTGCCTATGAATTTGCTAAACTTAAAAGCAAGC
TGGTTCTCTGGGATATAAAATAAGCATGGACTGGAGGAAACAGCTGCCAAATGCAAGGGACTGGGTGCCAAGGTTT
ATACCTTTGTGGTAGACTGCAGCAACCGAGAAGATATTTACAGCTCTGCAAAGAAGGTGAAGGCAGAAATTGGAG
ATGTTAGTATTTTAGTAAATAATGCTGGTGTTAGTCTATACATCAGATTTGTTTGCTACACAAGATCCTCAGATTG
AAAAGACTTTTGAAGTTAATGTACTTGCACATTTCTGGACTACAAAGGCATTTCTTCTGCAATGACGAAGAATA
ACCATGGCCATATTGTCAGTGTGGCTTCGGCAGCTGGACATGTCTCGGTCCCCTTCTTACTGGCTTACTGTTCAA
GCAAGTTTGCTGCTGTTGGATTTTATAAACTTTGACAGATGAACTGGCTGCCTTACAAATAACTGGAGTCAAAA
CAACATGTCTGTGTCCTAATTTTCGTAAACACTGGCTTCATCAAAAATCCAAGTACAAGTTTGGGACCCACTCTGG
AACCCGAGGAAGTGGTAAACAGGCTGATGCATGGGATTCTGACTGAGCAGAAGATGATTTTTATTCCATCTTCTA
TAGCTTTTTTAACAACATTGGAAAGGATCCTTCCTGAGCGTTTCTTGGCAGTTTTAAAACGAAAAATCAGTGTTA
AGTTTGATGCAGTTATTGGATATAAAATGAAAGCGCAATAAGCACCTAGTTTTCTGAAAACCTGATTTACCAGGTT
TAGGTTGATGTCATCTAATAGTGCCAGAAATTTAATGTTTGAACCTTCTGTTTTTTCTAATTATCCCCATTTCTTC
AATATCATTTTTGAGGCTTTGGCAGTCTTCATTTACTACCACTTGTTCTTTAGCCAAAAGCTGATTACATATGAT
ATAAACAGAGAAATACCTTTAGAGGTGACTTTAAGGAAAATGAAGAAAAAGAACCAAAATGACTTTATTAAATA
ATTTCCAAGATTATTTGTGGCTCACCTGAAGGCTTTGCAAAATTTGTACCATAACCGTTTATTTAACATATATTT
TTATTTTTGATTGCACTTAAATTTTGTATAATTTGTGTTTCTTTTTCTGTTCTACATAAAATCAGAACTTCAAG
CTCTCTAAATAAAATGAAGGACTATATCTAGTGGTATTTTACAATGAATATCATGAACTCTCAATGGGTAGGTTT
CATCCTACCCATTGCCACTCTGTTTCTGAGAGATACCTCACATTCCAATGCCAAACATTTCTGCACAGGGAAGC
TAGAGGTGGATACACGTGTTGCAAGTATAAAAGCATCACTGGGGGATTTAAGGAGAATTGAGAGAATGTACCCAC
AAATGGCAGCAATAATAAATGGATCACACTTAACG

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FIGURE 2038

MKFLLDILLLLPLLIIVCSLESFVKLFIPKRRKSVTGEIVLITGAGHGIGRLTAYEFAKLKSKLVLDINKHGLEE
TAAKCKGLGAKVHTFVVDCSNREDIYSSAKKVKAIEIGDVSILVNNAGVVYTSDLFATQDPQIEKTFEVNVLAHFW
TTKAFLPAMTKNNHGHIVTVASAAGHVSVPFLLAYCSSKFAAVGFHKTLTDELAALQITGVKTTCLCPNFVNTGF
IKNPSTSLGPTLEPEEVNRLMHGILTEQKMIFIPSSIAFLTTLERILPERFLAVLKRKISVKFDDAVIGYKMQ

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FIGURE 2039

GGCACGAGGAAGGTTTTTGTGCGCCAACGCAGTGACCGAAGGCTCCGCTCACGCCCCGGCCTGATCCTGCCTGAA
GATGGTGCCACTGGTGGCTGTGGTATCAGGGCCCCGTGCCAGCTCTTTGCCTGCCTGCTCAGGCTGGGCACTCA
GCAGGTCGGCCCCCTTCAGCTGCACACCGGGGCCAGCCATGCGGCCAGGAACCATTATGAGGTGCTGGTGTCTGGG
TGGGGGCAGTGGCGGAATCACCATGGCTGCCCGCATGAAGAGGAAAGTGGGTGCAGAGAATGTGGCCATTGTTGA
GCCCAGTGAGAGACATTTCTACCAGCCAATCTGGACACTGGTGGGTGCTGGTGCCAAACAATTGTCCTCATCTGG
TCGTCCACGGCAAGTGTGATTCCATCTGGTGTAGAATGGATCAAAGCTAGAGTGACTGAGTTGAACCCAGACAA
GAACTGCATTACACAGATGACGACGAGAAGATCTCTACCGATATCTTATTATTGCTCTCGGAATCCAGCTGGA
CTATGAGAAGATTAAAGGCCTACCTGAAGTTTTCGCTCATCCCAAAATAGGGTCGAATTATTCAGTTAAGACTGT
AGAGAAGACATGGAAAGCTCTGCAGGACTTCAAAGAGGGCAATGCCATCTTCACCTTCCCAAAATACTCCAGTGAA
GTGTGCTGGAGCCCCCTCAGAAGATCATGTACTTATCAGAAGCCTACTTCAGGAAGACAGGGAAGCGATCCAAGGC
CAATATCATTTTCAACACTTCTCTTGGAGCCATTTTCGGGGTTAAGAAGTATGCAGATGCCCTGCAGGAGATCAT
CCAGGAGCGGAACCTCACTGTAACTACAAGAAAAACCTCATTGAAGTCCGAGCCGATAAACAAGAGGCTGTATT
TGAGAACCTGGACAAACCAGGAGAGACCCAAGTGATTTTCATATGAAATGCTTCATGTACACCTCCAATGAGCCC
ACCAGATGTCCTCAAGACCAGTCCTGTGGCTGATGCTGCTGGTTGGGTGGATGTGGATAAAGAACTCTGCAACA
CAGGAGGTACCCAAATGTGTTTGGGATTGGGGACTGCACCAACCTTCCTACGTCAAAGACCGCTGCTGCAGTAGC
TGCCAGTCAGGAATACTTGATAGGACAATTTCTGTAATTATGAAGAATCAAACACCAACAAAGAAGTATGATGG
CTACACATCATGTCCACTGGTGACCGGCTACAACCGTGTGATTCTTGCTGAGTTTGACTACAAAGCAGAGCCGCT
AGAAACCTTCCCCTTTGATCAAAGCAAAGAGCGCCTTTCCATGTATCTCATGAAAGCTGACCTGATGCCTTTCCCT
GTATTGGAATATGATGCTAAGGGGTTACTGGGGAGGACCAGCGTTTCTGCGCAAGTTGTTTCATCTAGGTATGAG
TTAAGGATGGCTCAGCACTTGCTCATCTTGGATGGCTTCTGGGCCAAAACCTGCAGTCACTGAATGACCAAGAGCA
GCACGAAGGACTTGGAACCTATCCTTGTAAGAGTTCCTTGATGGGTAATGGTGACCAAATGCCTCCCTTTTCAG
TACCTTTGAACAGCAACCATGTGGGCTACTCATGATGGGCTTGATTCTTTGGGAATAATAAAATGAAATAATACT
TTTATTTTCTGAATAAAAAGTTTGTCACTGAAAAAAAAA

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FIGURE 2040

MVPLVAVVSGPRAQLFACLLRLGTQQVGPLQLHTGASHAARNHYEVLVLGGGSGGITMAARMKRKVGAENVAIVE
PSEHRYQPIWTLVGAGAKQLSSSSGRPTASVIPSGVEWIKARVTELNPDKNCIHTDDDEKISYRYLIIALGIQLD
YEKIKGLPEGFAHPKIGSNYSVKTVEKTWKALQDFKEGNAIFTFPNTPVKCAGAPQKIMYLSEAYFRKTGKRSKA
NIIFNLSLGAIFGVKKYADALQEIIQERNLTVNYKKNLIEVRADKQEAVFENLDKPGETQVISYEMLHVTPPMSP
PDVLKTSPVADAAGWVDVDKETLQHRRYPNVFGIGDCTNLPTSKTAAAVAAQSGILDRTISVIMKNQTPTKKYDG
YTSCPLVTGYNRVILAEDFYKAEPLETFFPDQSKERLSMYLMKADLMPFLYWNMMLRGYWGGPAFLRKLFHLGMS

[illegible]

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FIGURE 2042

MLESSGCKALKEGVLEKRS DGLQLWKKKCCILTEEGLLLIPPKQLQHQQQQQQQQQQQQQQPGQGPAEPSQPSG
PAVASLEPPVKLKEHF SNMKTVD CVERKGKMYFTV VMAEGKEIDFRCPDQGWNAEITLQMVQYKNRQAILAV
KSTRQKQQHLVQQQPPSQPQPQLQPQPQPQPQPQPQPQSQPQPQPQPKPQQLHPYPHPHPHPHSHPHSHPH
PHPHPHPHQIPHPHPQPHSQPHGHRLLRSTNSA

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FIGURE 2043

CCCGTATCCGCATCCACATCCACATCCACACTCTCATCTCACTCGCACCCACACCCTCACCCGCACCCGCATCC
GCACCAAAATACCGCACCCACACCCACAGCCGCACTCGCAGCCGCACGGGCACCGGCTTCTCCGCAGCACCTCCAA
CTCTGCCTGAAAGGGGCAGCTCCCGGGCAAGACAAGGTTTTTGAGGACTTGAGGAAGTGGGACGAGCACATTTCTA
TTGTCTTCACTTGGATCAAAAGCAAAACAGTCTCTCCGCCCCGCACCAGATCAAGTAGTTTGGACATCACCCCTAC
TGAACAACCTTGGCGATTCTTCTTAGTTTTCTGCATACTTTTCATCACCGATGCAGGAAACGATTTTCGAGTCAAGA
AGACTTTTATTTATGAACCTTTGAAAGGATCGTCTTGTATGGTGAATTTTCTAGGAGCGATGATGTACTGTAATT
TTATTTTAATGTATTTTGATTTATGATTATTTATTAGTTTTTTTTTAAATGCTTGTCTAAGACATTTCTGAATGT
AGACCATTTTCCAAAAGGAACTTTATTTTCAAAAACCTAATCCGTAGTAATTCCTAATCTTGGAGAATAAAAA
AGGGCGGTGGAGGGGAAAACATTAAGAATTTATTCATTATTTCTCGAGTACTTTTCAGAAAGTCTGACACTTTCAT
TGTTGTGCCAGCTGGTTGAAATTA AAACTCTGATATTACTTTTTTTGAGGATTTTTATTTTTGTTTTTGCTTAAA
CACTATAGTTTGTCTAGAAGTTTTAAAAAGCTAAAAGTTAAAAATGGTGTAATTATGAAAATCTAACACTCAAGAT
AGTTTCTAAAAGGAAATCAGTAGTTAAGGATACCTGATTTCAAAATATTTAAAGCATAACCTAACTGATGGTAGG
ATGATTGTATCTTGAATATGTGGTAGGGCCACATCTATTGTAGGAAAACCTTGCTTTTATCATCTGTGTGTAAAG
GGCTTAATAAGGAGAAGAGGCCTTTTACTGATTTGTGAGTATAAATGCATTTGCTGTTTCATTTCAAAAATGTT
GTGGAGGAAAAGAGTACATTTAACTTGTATAAGAGAATATTTGTACTCCTGTCCAGGCTGCAGGACCTTTCTTCG
AGAGCTTTGCACACTTGACTTGAACCACATTTTCTGATCCCTTTACTTTGTTTTAGAAGCACACTGAAAAATCTC
GTTGTTTAAAGTACAATTTGTAAATATTTCAAAGGTCTAGGAGTCATAACTTTTGTTTTCATACTGAAAAATGATG
TTGATCAGAGAAACCACTGTTTTGCTTTTCATTGCTCTGTGAGAAATTGAGGATTCTGTTTTGCTGTTAGGTAA
GCTAACTCAGAAATTGAAAGGAAAGACTGGATAAACACCGGATTTTCAGTAAGAAAACAACCCCACTCTGTCTT
AGAAGCCACTTGTTGAGGAGTCTGTTGGGGGAAAAAAGAGGATATGCTTTTAAAGGTAGAACAACCTTCTTCTG
TGTTAAATCAAAAGGATGTTCAAAATCCACCAGGACAGATGCTACTTGGGTTTAAATGGAGCCATAGATGATACA
AAGTCCTCTTGGGGCTGAAAATCACTTCTATTTGCATGGCTTTACTAACTGGTTTTCTGTTTTCCATTATCTTTT
TCACAGAAAGTCTTGGTCAGTATTTTTCCAGCATTTAAATGAAACGGTCAGTATTAGACCCTGCTAGGTTATG
TAGTCAAGAAATAAAAAATAGAATTACATGCTACAGATGTCTTTATTCTCCTTCCATCTAGAAAGGAGTTCCAAGG
TCAAATTACTTTTTAGTGCAATAGTTAAATGACATTTTGAGATCATAACTCATATCCAAAAAGTTGCAGGGAAAA
TTAAATAGCTTTCCCTATTAAGCTAATGGCAAACAAAACCTTAAGTGGACCCCCACTTCCAGTGGTTGTTTAGG
TTGCAGTTGTGAAAATATGCTGCCAACATTTAAAACTTGTTTCATATGTATATATGTATACACATATATGAATA
TGTATGTATATACATATATGAGAACATGTGTGTACACATATATGAATATGTATATATGTGTATGTATGTATAT
ATGTATATGAAATGAGAGCCACATCTAAAGATTTCTTAAATCAAGTTTGGTTCAGCTTCCTTAGAACTGTGGCTG
TACTTTTTGAGGAGTACCTCATAGTACTATATTTTAAATGCATGCAAATCATAATAGCTCCAAATGAACCACAGT
TTTTTCCCAATGGAGGATTTTTTTTTTAATCTTGTTACTAAAAAATAATCCATACCAAATATTTTTACAAATT
AAGATTGATGTAGGTTTTAAAAAAGGCATTTGTATGTTGTAGCTTACATATGGGGCTAGGTAATTTCAATTGCTT
AAAAAGATGCGCTAGGCTCCCTCTTGGTGGCTGGATTTCTTTTTCTTCGCCCCTGGTGGCCATGGTTTTTAATA
GGGCCACCGGAATCATGTTTCTTTTTTTTTTTTTTTTTTGGAGATGGAGTCTCGCCCTGTGACCCAGGCTGGAG
TGCAGTGGCACGATCTCGGCTCACTGCAACCTCTGCCTCTTGGGTTACGCCATTCTCCTGTGTGACCTCCTGA
GTAGCTGGGACTACAGGTGAATGCCACCACGCCCCGGCTGATTTTTGTATTTTTAGTAGAGATGGGGTTTACCAT
AGTGGTCAGGCTGTTCTCGAACTCCTGACCTCAGGTGATCCACCTGCCTTGGCCTCCCAAAGTGCTAGGATTACA
GGTGTGAGCCACCACACCCGGCCCCAGAGTAATGGTTTCTTGACTTTCTGTAGCCCTTGTTTCTTAGTCTGCTGT
GATATTTATGTTGACCTTTATCATTTTCTATTCTGAACCCCTCTTAGCATTTAATGTGAAATCTAAGAAATTAGA
AGTAGAATGGCTTTTATTGTTTTGACACCTTTGAAATTATTATTAATAATTTTTCCAGAGCAAAAAAGCAAAACAC
GCTCAATAAGACTAAACAAAACAAAATATAAATGTACATCATTTAATGTCCCAGTGGCTCTATTCTACCTGTAAG
AAAAATGATACAAAACCACCTAAGATATTTTGAAGCCTGACAAATCAGCTTCATGGAAAAAGGTAAAAAATGCATT
TTTCAACCGAAAGGGCAGATCCAATAGAAGACCCGCTCCTTAAATAAACATAAAATGTAAAAAGTTGGAAAAAA
AA

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FIGURE 2044

GCAGATCGCTTGCAGCTTGCTAGCTGTGTGGGCTGGGAGGTCTGGTAGGGCTGAGCTTGCAAGAGGATCAACATG

CCTTTGGCTAGAGATTTACTACATCCGTCCTTGGAAGAGGAAAAGAAAAACATAAAAAAGAAACGCCTAGTACAA
AGTCCAAATTCTTACTTTATGGATGTAAAATGTCCAGGTTGCTACAAGATCACCACGGTTTTTCAGCCATGCTCAG
ACAGTGGTTCTTTGTGTAGGTTGTTCAACAGTGTGTGCCAGCCTACAGGAGGAAAGGCCAGACTCACAGAAGGG
TGTTCAATTTAGAAGAAAGCAACACTAATGATTCAAACAGCTTCCTGAATTTTAATTTTGTGTTGTCTCACAGAAA
GCCTTATCATAAATTCATAAATTCTAATTAATTTACCAAGATAATGTAATTACATTTGGTTTTGTAAGGTATACA
GCAGTAATCTCCTATTTTGGTGTTCAGTTTTTCAATAAAGTTTTGATTATGGGCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2045

MPLARDLLHPSLEEEKKKKKKRLVQSPNSYFMDVKCPGCYKITTTFSHAQTVVLCVGCSTVLCQPTGGKARLIE
GCSFRRKQH

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FIGURE 2046

AGACAGCACCTCAGTCTCTGACTCCAGCCGCACACCTCCTGCCTCTACCAGCAGGGGTTGCCGCCAGACCAGAGC
CAGGGCCAGGTCCCTGCGTCCATCCCCCGGTAGGATGGACGTGAGCCATCCTTCTAGGGGACTTTTTTCAGTG
TGCGACTCGTCTCTGTTAGGTGGTAGGAGCCAGTTTGIGTGGCCTGTGCCACGCTCCACAGTGCGTGGCTGGGCT
CTGTGTGTGGCCTGTGTCCCCTGTCCCTGCAGGACCCAGCAGGCATCGTGGCGTGACAGCTGTGTCCAAGCCACT
GCCCCGGGCATCCCATCACCCACCAGGGTGACAGTCTCTCCTGCTGGGGGCTTTCTGTGCGATGTGTGTCTCCTG
TCGACTCTGCAGTTTGTTCTCAGAGCAGAATGTTTCCTGTTCTCAGTGCACAAAGACACTGGTTTTCAATCGGCG
TCTAAAACACGTTTCCTGCCTTTTCATTGCAACACGGTGTGTTCATTTGTTTAAAACAGTTTAATGAGTAAGTTTA
GATGACTGGTCAATATCTTAAAAATGTATATTAGTAAGAAGTTCTTCCTGGAATTTTTCTTTTCGATTCTGGCAGA
ATAAACAGGTGTTTTTAGTTTTCCCCTGTCTGAGCCAAGCAGGACCCTGTCCCAGAGCAAGAGATGTCCCCCTTC
CATCTCTGACCCTTGCCCTGGGACAAGCTTTGATGGGGGGCCCCAGCTTCAAGGCTGTGGTGGGAACAGCACCCCC
AAATGCCAGCCTCTCCTTTCTTCCCATCCACCAGTATACTGCGGGGCCATTTCTGGTCTTTGTGCAACAGGAAAC
CCATTTCTGGTGGGATATGCCTTCCAGTGCCACAGGGCCACTCACCCCATGCATCTCTGTCTCCTGCCCGTCAGTGC
TGGGACGGACAGCAAGGGCAAGCCCAGTGTCTGGCGGATAGGTGGGTGGGAACAGAGAGGGGAGAATGCCGTCCT
AAGCTTCTGCTTGGGGATCCCCACACGACCTGGGTACTGCCTGGGAAACCTGTCTAAGTAAAACCTATGGACCT
CGCCTCGCCACCGGCCTGCGAAGCCAGCATCTCCGTGAAGGTGGATGGAAGCGCCTTTGTCTCATTTTGAGCT
GCAAGCTGGGTGAGCGGCTCTGAAGCCCTCGAGTGACTTTCTAACCCTAAGACCCAGCCCCCTGGCAGGAGGAGGGT
GGGTGCAGGGCTGGTGGGACAAAAGAGGCCTCAGCAGGCCTGGAAGACCCTTCCAGTACATCCCACAGCGTGTG
GAGCAGCTGGGAGAACCTGTGTCAAGCTCGAGCCGTCATAGATCCCCATGAGGTGTCTGAAGCCCTTCTTGCTG
ATGGGAGGCAGAGGTGCTGACGTTCTGGAGCATGGACGTGAGTCCTCAGCTGGCTCCGCGTGGGGCCCTTGGAGGG
TGCCAGGTGTGTGGTGACCTTCTGGATGCCTTTAACTTCATGGCTGCGTCATTCTGATTTAGAACTTTAAACGG
AGCTTCATCTAGTGATTGCAAACTGGACCAATGGGAGGACGGCGGCGCAGCCCGCTCCCTCCGTGGAATGGAGC
TCAGCTCTTCGGAGGCATCAAAGCACCTGTGCGCTCCGTGGTCCCCCTGCCGAGGGAGTGCGGCCTCTGCAAGGT
TCGGGGGTGGCTTCGTTTGCTGGAGTGGCCGGCCCTGCTTGTGCCATGTGGATGTTTGTGAGCCTCGGTCTTAC
AGCACTGTGTAGGCTGCATCTGTTTCGTGCTGGTCCTGTTGACTTGTATGATATCCACAAATAAATATTTTCATG
GCAAAAAAAAAAAAAAAAAA

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FIGURE 2047

MSPSISDPCLGQALMGGPSFKAVVGTAPPNASLSFLPIHQYTAGPFLVFVQQETHFWWDMPS SATGPLTPCISVL
PVSAGTDSKGKPSVWRIGGWEQRGENAVLSFCLGIPHTTWVLPGKPVLSKTMDLASPTGLRSQHLREGGWKRLCP
HFELQAGSAALKPSSDFLTQDPAPGRRRVGAGLVGQKEASAGLEDPSSTSHSVSSSWENLCQARAVIDPHEVSEA
PSW

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FIGURE 2048

CCCGAGACCACGTGGCCTCCGAGCAGCTCAGGGCGCCCTTGAAAGTTCTTGGATCTGCGGGTT**ATG**GCCGGTCCC
TTGCAGGGCGGTGGGGCCCGGGCCCTGGACCTACTCCGGGGCCTGCCGCGTGTGAGCCTGGCCAACTTAAAGCCG
AATCCCGGCTCCAAGAAACCGGAGAGAAGACCAAGAGGTCGGAGAAGAGGTAGAAAATGTGGCAGAGGCCATAAA
GGAGAAAGGCAAAGAGGAACCCGGCCCCGCTTGGGGCTTGAGGGAGGCCAGACTCCATTTTACATCCGAATCCCA
AAATACGGGTTTAACGAAGGACATAGTTTCAGACGCCAGTATAAGCCTTTGAGTCTCAATAGACTGCAGTATCTT
ATTGATTTGGGTTCGTGTTGATCCTAGTCAACCTATTGACTTAACCCAGCTTGTCAATGGGAGAGGTGTGACCATC
CAGCCACTTAAAAGGGATTATGGTGTCCAGCTGGTTGAGGAGGGTGCTGACACCTTTACGGCAAAAAGTTAATATT
GAAGTACAGTTGGCTTCAGAACTAGCTATTGCTGCCATTGAAAAAATGGTGGTGTGTTACTACAGCCTTCTAT
GATCCAAGAAGTCTGGACATTGTATGCAAACCTGTTCCATTCTTTCTTCGTGGACAACCCATTCCAAAAAGAATG
CTTCCACCAGAAGAACTGGTACCATATTACACTGATGCAAAGAACCGTGGGTACCTGGCGGATCCTGCCAAATTT
CCTGAAGCACGACTTGAACTCGCCAGGAAGTATGGTTATATCTTACCTGATATCACTAAAGATGAACTCTTCAA
ATGCTCTGTACTAGGAAGGATCCAAGGCAGATTTTCTTTGGTCTTGCTCCAGGATGGGTGGTGAATATGGCCGAT
AAGAAAATCCTAAACCTACAGATGAAAATCTCCTTAAGTATTATACCTCA**TGA**ATTCCCGTCCAAGGAAGCAGA
GTTGTTAAAGAGTACTGGAATAGGGGCTGAAGGATCTATATCCCTTATTGCATTTTCCTTATGTATAATTTCC
AGATGGTGATGTTACTTTTCAGTGTACTCATATGTCTCATTTTCATCTAAAATTAAATGGCAGGAAACAAGGACT
GCATAGAGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2049

MAGFLQGGGARALDLLRGLPRVSLANLKPNGSKKPERRPRGRRRGRKCGRGHKGERQRGTRPRLGFEGGQTPFY
IRIPKYGFNEGHSFRRQYKPLSLNRLQYLIDLGRVDPSQPIDLTQLVNGRGVTIQPLKRDYGVQLVEEGADTFTA
KVNIEVQLASELAIAAIEKNGGVVTTAFYDPRSLDIVCKPVPFFLRGQPIPKRMLPPEELVPYYTDAKNRGYLAD
PAKFPEARLELARKYGYILPDITKDELFKMLCTRKDPRQIFFGLAPGWVVMADKKILKPTDENLLKYYTS

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FIGURE 2050

GCGGATCATCCGCTTCCGGAGTCGAGGTTTTCGGGCTTGTACCGCTTGGCGGTGCGGCCTGGTGTGCGGCTTGCAG
GTTCTTTCTGTGTTTGTCTCTGCCCTGCCAAGGCCGTAGAGCTGGTGCGTGCGGGTAGCGGGGCTCTCCGAGGA
GCGCGGCACGCCGCGCACCATGGTCCACCTCACTACTCTCCTCTGCAAGGCCTACCGTGGGGGCCACTTAACCAT
CCGCCTTGCCCTGGGTGGCTGCACCAATCGGCCGTTCTACCGCATTGTGGCTGCTCACAACAAGTGTCCTCCAGGGA
TGGCCGTTTCGTAGAGCAGCTGGGCTCCTATGATCCATTGCCCAACAGTCATGGAGAAAACTCGTTGCCCTCAA
CCTAGACAGGATCCGTCATTGGATTGGCTGCGGGGCCACCTCTCTAAGCCTATGGAAAAGCTTCTGGGTCTTGC
TGGCTTTTTCCCTCTGCATCCTATGATGATCACAAATGCTGAGAGACTGCGAAGGAAACGGGCACGTGAAGTCCT
GTTAGCTTCTCAGAAAACAGATGCAGAAGCTACAGATACAGAGGCTACAGAAACATAAATGAGCTGACTTTAGTG
AGCATAGCAGTGGGAACAAGGTCAAGGTCCTTTTGAAACACTGCAGCGATCTTAATTTGTTAGATTGGAGTTC
AATAAATGGAGTATCCTGAAAAAAAAA

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FIGURE 2051

MVHLTTLLCKAYRGGHLTIRLALGGCTNRPFYRIVAAHNKCPRDGRFVEQLGSYDPLPNSHGKLVALNLDRIH
WIGCGAHLSPMEKLLGLAGFFPLHPMMITNAERLRRKRAREVLLASQKTDAEATDTEATET

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FIGURE 2052

GTCGGCTGGAAATTATGTCCTCCGTCGGTTTTCCGCAGTTTTTCCACCAAGCGAGATATTTTTGGGAGTTATTCC
CTAAATAACTGCATTATATGCTCCTTTTCATGACGAAATTGCTGCCGTGGAGAAGACTGGAGGAAACTCGAGGAAG
AGGGAGAAGCCGACAAGTGCTCGACGGGCTAGGAACTGTCCTGCTTGGGTGTTAGCGTTTCCCGCCGGGCCAGTA
AGGCTGAGTGACCCGGCGTGGCTACTAGGAGAAGGACGTACGGTCCTGCTAGTAGAGGAATATGTCGAGTTTCTC
TAGGGCGCCCCAGCAATGGGCCACTTTTGCTAGAATATGGTATCTCTTAGATGGGAAAATGCAGCCACCTGGCAA
ACTTGCTGCTATGGCATCTATAAGACTTCAGGGATTACATAAACCTGTGTACCATGCAGTGAAGTGTGGGGA
TCATGTTGTTATAATGAACACAAGACACATTGCATTTTCTGGAAACAAATGGGAACAAAAAGTATACTCTTCGCA
TACTGGCTACCCAGGTGGATTTAGACAAGTAACAGCTGCTCAGCTTCACCTGAGGGATCCAGTGGCAATTGTAAA
ACTAGCTATTTATGGCATGCTGCCAAAAACCTTCACAGAAGAACAATGATGGAAAGGTTGCATCTTTTTCCAGA
TGAGTATATTCCAGAAGATATTCTTAAGAATTTAGTAGAGGAGCTTCCTCAACCACGAAAAATACCTAAACGTCT
AGATGAGTACACACAAGAAGAAATAGACGCCTTCCCAAGATTGTGGACTCCACCTGAAGATTATCGGCTATAAGA
GAATAAGAATTGCAGAAAATAACAGTGAAGTGATTGAACTTTCTTCTGATGAGTTTCTCTAACCTACAGGATGG
AGTAAACAACCTGCTACAGTTCAGCACCTGTTTTATGTGCCGAATCACTGTGGGGAAAGGTCAGGAAGGTATAGT
CCTTCAATAGGAAATTGTAATTAAAATATAATTTTATAGAACCATTTTTATGTAATCTGATTGAATGTTATAGT
TGATAATAATAAAATCACTTACTTGGTTGACTAAAA

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FIGURE 2053

MSSF SRAPQQWATFARIWYLLDGKMQPPGKLAAMASIRLQGLHKPVYHALSDCGDHVVIMNTRHIAFSGNKWEQK
VYSSHTGYPGGFRQVTAAQLHLRDPVAIVKLAIYGMLPKNLHRRMTMMERLHLFPDEYIPEDILKNLVEELPQPRK
IPKRLDEYTQEEIDAFPRWLWTPPEDYRL

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FIGURE 2054

CTCGTTTTCCCCTCCTGAGCGGGTGGAGGAGGCCCAAGCGTGCTGGGCGCGCTCCCCCTTCCTTTCCCTCCGGCG
TCCTCTCCCGGCCCTCTCGCGCTGCACTGTCTCTCCGACGCAAGACTGTCCCGGCCCGGATATGGCTCGTGGACA
GCAGAAAATTCAGTCTCAGCAGAAAAATGCCAAAAAGCAAGCTGGACAAAAGAAGAAACAAGGACATGACCAAAA
GGCTGCTGCCAAAGCTGCCTTAATATATACCTGCACTGTCTGTAGGACACAAATGCCAGACCCTAAGACCTTCAA
GCAGCACTTTGAGAGCAAGCATCCTAAGACTCCACTTCCTCCAGAATTAGCTGATGTTTCAGGCATTAAGGTTGTTT
ACAGGTGAATTCATGACACCTTTGACTCTTCTACTGTCTCAGACCTTAGGTAACATACCTGCGCTGCTTTTCTAA
CAAACCTGTTGATCAGCAAAAATAAAGGGGGCTACAGAAACACTCATTTTTATGCTGTTCCCTCTTGCGGCTTCATGC
AAAGACAATTCTGTGTAATGTACAGTTGACTCTGATTTGGAAATATGAAAATCAGTCCATCCTTGTATAAAAA
ATTTTTTTACAATTGTAATTATATTGATGTTTATATTGTGTAAAATAACTCATTTAATAAAATAGTACTTTGATT
TACGACATCACAGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2055

MARGQQKIQSQQKNAKKQAGQKKKQGHDKAAAALIIYTCTVCRTQMPDPKTFKQHFESKHFKTPLPELADVQ
A

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FIGURE 2056

ATTGTGGGAAGGGCGGCCGGTGCAGCCGAGCTGCCATCTTAGGGGCGCCTGGCGCTACGGGTTTCTCGTTGGAG
GCGGCCTTCGTGGCAGCTGTAGACGCCGGGAAAAGGCATAAAGTCCGTTGGCCGACACCTTTCTTTCCCTCCGGCC
TCGGTAGAACCGCCAGCCCGCGTCCGAAGGCGGAGGCGAGGGGAACTGGCCGCGTGAGGGGCCTGAGGCGAGCGG
TTAGAGCGTCTCCCGGAAGGATGGGGCCGGTCTCGGAGCCGGAGCTCGTCCCGCTCCAAGCACACCAAGAGCAGCA
AGCACAAACAAGAAGCGCAGCCGGTCCCGGTTCGCGATCCCGGGACAAGGAGCGCGTGCGGAAGCGTTCCAAATCTC
GGGAAAAGTAAACGGAACCGGCGGGGAGTCGCGGTCCCGTTCGCGCTCCACCAACACGGCCGTGTCCCGGCGCG
AGCGGGACCGGGAGCGCGCCTCGTCCCCGCCCGACCGCATCGACATCTTCGGGCGCACGGTGAGCAAGCGCAGCA
GCCTGGACGAGAAGCAGAAGCGAGAGGAGGAGGAGAAGAAAGCGGAGTTTCGAGCGGCAGCGAAAAATTCGACAGC
AAGAAATAGAAGAAAACTCATCGAGGAAGAAACAGCACGAAGAGTAGAAGAATTGGTAGCAAAAAGGTTGGAGG
AAGAACTGGAGAAAAGGAAGGATGAAATTGAACGAGAAGTTCTCCGAAGGGTGGAGGAAGCCAAACGCATCATGG
AAAAGCAGTTGCTCGAAGAACTCGAGCGACAGAGACAAGCTGAGCTTGCCGCACAAAAGCTAGAGAGGAGGAAG
AACGTGCAAAACGTGAGGAGCTAGAGCGAATACTGGAAGAGAATAACCGAAAAATTGCAGAAGCACAAAGCCAAAC
TGGCCGAAGAACAGTTGAGAATTGTTGAAGAACAAAGAAAGATTTCATGAGGAAAGGATGAACTAGAACAAAGAAC
GACAACGTCAACAGAAAGAAGAACAAAAAATTATCCTGGGCAAGGGGAAGTCCAGGCCAAAACGTCTCTTCAT
TAAAAACCCAGGATTAAATTGCAAACTCTGAACTTTTTACAAAGAAAAATGGAAAACTTTGTATGGTAGCTTCA
TGTTGAAGTGGTTTTTTTGTGTTTTGTTTTGTTTTTAAATTTGTAAATCTGGAAAGTTAGCTTGTCTAATAGG
GGCTATGCTCTGCAATTCCTTTTTTTTTTTTTTTTCTTCCACTAAGTCAAATCCTTATCAGATCATTGTTGTA
TTCTAAGGAGTGACGTATTTTTACCTGTTTGGATTCTATATTAGTGGTCTGAGGAAGAGCAGATCACATTGTAA
AACTATGGATGGTCTGATAAGGCTTTTACTGACCCCACTGACTTCAGAGTTATACTCTGCTTGCTACATCATAAT
GCTGGTTTTGCTGACTTTTTGTTTTTTTATATATTTATAAAAAAAGAAAAAGTTGGTGATTGCATTGGGAAATTC
CCAGGGTATTACTGGACCTATGTGGTGTATTGTTAAACCAGTGTCTTGTGATACTGTGCTCTTGATGTTCTTG
ATACAGGTAAGGAAACAGTTGGTCAACTCTGATACAAAGTATATATACAGTTCAGTATTGTCTCTGTTTCATTTTG
TTTTTATTTTCATTGACAAAATCAAACCAGCATTCCCCATTGTGTAAATAAATGATTTTGCTGAATAAAGTAAAGT
CTTAAATTC

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FIGURE 2057

MGRSRSRSSSRKHTKSSKHNNKRSRSRSRSDKERVKRKSKSRESKRNRRRESRSRSRSTNTAVSRERDRERA
SSPPDRIDIFGRTVSKRSSLDEKQKREEEKKAEFERQRKIRQQEIEEKLIEETARRVEELVAKRVEEELEKRR
DEIEREVLRRVEEAKRIMEKQLLEELERQRQAELAAQKAREEEERAKREELERILEENNRKIAEAQAKLAEEQLR
IVEEQRKIHEERMKLEQERQRQQKEEQKIILGKGKSRPKLSFSLKTQD

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FIGURE 2058

GGCACGAGGCAGAGGGCGGTTCTGGAGTTACAGCCGCGTTTGCGGGACGTGTCTGCGCGGCAGTCCTGGCCTGT
TGAGCTTGTCAGACGAAGCCTCGCAGGGATGGGTTGGAGCCTGGGCGGGCTTCGCTCAGGCAGCGTTTGAGGC
AGACCCAGCAGGGTCCTCCTGGGGCCTTCCTGCCTTTGAACTGCGGTGGCGGGCGGGCGCACGGTCTCCTGTACG
CCCTAGACTAGGGGCCGCCATCTCCATGGCCACGGCCGTGAGCCGGCCCTGCGCCGGCAGGTCGCGGGACATACT
GTGGCGCGTTTTGGGCTGGAGGATAGTTGCAAGTATTGTTTGGTCAGTGCTATTTCTACCCATCTGCACCACAGT
ATTTATAATTTTCAGCAGGATTGATTTGTTTCATCCTATACAGTGGCTGTCTGATTCTTTTCAGTGACCTGTATAG
TTCTATGTAATCTTTTACTTCCTGCTGCTGTGTCAGTGGTAATAATAATAAAGTATTTTCAATGTGGAGTTCTA
TGCAGTTGTGCCTTCTATTCTTGTCTCCAGACTAGCTCTGATAGGGAAGATCATTTCATCCTCAGCAACTCATGCA
CTCATTATTTTCATGCTGCAATGGGAATGGTGATGGCCTGGTGTGCTGCAGTGATAACCCAGGGCCAGTACAGCTT
TCTTGTGGTTCCCTGCACTGGTACTAACAGCTTTGATAGCCCTGCTGCGCAAACCTGCTTAAATGAATATCATCT
TTTTTTCCTACTGACTGGAGCATTATATGGGCTATAGCTATAGCCTCCTGTATTTTGTAAACAACATGAACATCT
TCCATTTCCCATCATACAGCAATAACAAGTTCTTGCCTTTTAGGAGATCTCTGCTCTTATTAGTTAAACACAGTTG
TGTGGAATCACTGTTCTGGTTAGAAATTTCTGCATTTTATATTATTTCTTGGCTATATTCCCAAAGCTTGGAT
TAGCACTGCTATGAACCTTCACATAGATGAGCAGGTTTCATAGGCCACTTGACACAGTGAGTGGCCTCTTAAATCT
CTCGTTACTCTACCATGTCTGGCTGTGTGGTGTCTTTCTCCTGACGACTTGGTATGTCTCATGGATACTCTTCAA
AATCTATGCCACAGAGGCTCATGTGTTTCTGTTCACCACCATTTCAGAGAAGGGTCAGATGAGTGCCTTCCAAA
AGTGTTAAATAGCAATCCTCCCCCATCATAAAGTATTTAGCCTTGACAGCCTGATGTTGCTTTCTCAATATTC
TCCTTCACGAAGACAAGAAGTTTTAGCCTCAGCCAACCAGGTGGACATCCCCACAATTGGACAGCCATTTCAG
GGAGTGTTGAATCTTTTAAATGGTATGACTCAGAACTGATTCTCTATCAAGAAGCTGCTGCTACGAATGGGAG
AGTGCTTTCATCTTACCCAGTGGAACCTAAGAAATTAAATTCTCCAGAAGAACTGCTTTTCAGACACCAAAATC
TAGCCAGATGCCTCGGCCTTCAGTGCCACCATTAGTTAAAACATCACTGTTTTCTTCAAAATTATCTACACCTGA
TGTGTGAGCCCATTTGGGACCCCATTTGGCTCTAGTGTAATGAATCGGATGGCTGGAATTTTTGATGTAAACAC
CTGCTATGGGTCACCGCAAAGTCCTCAGCTAATAAGAAGGGGGCCAAGATTGTGGACATCAGCTTCTGATCAGCA
AATGACTGAATTTTCTAATCCTTCTCCATCTACCTCTATTAGTGCTGAGGGTAAGACAATGAGACAACCCAGTGT
GATTTATTTCATGGATTGAGAATAAACGTGAACAGATTAAGAATTTCTTGTCAAAACGGGTGCTGATAATGTATTT
TTTCAGTAAGCACCCAGAGGCCTCCATTACAGGCTGTTTTTTTCAGATGCCCAAATGCATATTTGGGCATTAGAAGG
TCTGTCGCACCTTAGTAGCAGCATCATTTACAGAGGATAGATTTGGAGTTGTCCAGACGACACTACCAGCTATCCT
TAATACTTTGTTGACACTGCAAGAGGCAGTCGACAAGTACTTTAAGCTTCCTCATGCTTCCAGTAAACCACCCG
GATTTACAGGAAGCCTTGTGGACACTTCATATAAAACATTAAGATTTGCATTTCAGAGCATCACTGAAAACCTGCCAT
CTATCGAATAACTACTACATTTGGTGAACATCTGAATGCTGTGCAAGCATCTGCAGAACATCAGAAAAGACTTCA
ACAGTTCTTGGAGTTCAAAGAATTAGTTAAGTAATATAAACTGTGTTTATTACACTGCTGATACAACCTACAGATGG
GACAGTAAATGTTTCAGCATTCTTGGATCAGAAGAAAACGGACTAATTAGATGCTTCTTTGTGCTGGTGGTGTGCT
TTGAAAACCTATACTTTAATGGGAGAAATCATGGAAGAAATTTCTCAACAGAATAACTGAAAACCTGCCTTTTCTGT
ACCGATTGCTTTTTGTGTGTGTGGTATAATAAAATCTTTATTCAATTTTACAGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2059

MATAVSRPCAGRSRDILWRVLGWRIVASIVWSVLFLPICTTVFIIFSRIDLFHPIQWLSDFSFDLYSSYVIFYFL
LLSVVIIIIISIFNVEFYAVVPSIPCSRLALIGKIIHPQQLMHSFIHAAMGMVMAWCAAVITQGQYSFLVVPCTGT
NSFDSPAAQTCLNEYHLFFLLTGAFMGYSYSLLYFVNNMNYLPFPPIIQQYKFLRFRRSLLLLLVKHSCVESLFLVR
NFCILYYFLGYIPKAWISTAMNLHIDEQVHRPLDTVSGLLNLSLLYHVWLCGVFLTTTWYVSWILFKIYATEAHV
FPVQPPFAEGSDECLPKVLNSNPPPIIKYLALQDLMLLSQYSPSRRQEVFSLSQPGGHPHNWTAISRECLNLLNG
MTQKLILYQEAAATNGRVSSSYPEPKKLNSPEETAFTQTPKSSQMPRPSVPPLVKTSLSFSSKLSTPDVVSPFGTP
FGSSVMNRMAGIFDVNTCYGSPQSPQLIRRGPRLWTSASDQQMTEFSNPSPSTSSISAEKTMRQPSVIYSWIQNK
REQIKNFLSKRVLIMYFFSKHPEASIQAVFSDAQMHIALEGLSHLVAASFTEDRFGVVQTTLPAILNTLLTLQE
AVDKYFKLPHASSKPPRISGSLVDTSYKTLRFAFRASLKTAIYRITTTTGEHLNAVQASAEHQKRLQQFLEFKE

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FIGURE 2060A

CGCCGTGGGGCCGAGGTGTCGCTTCCTGACGGGGCGGCGCGGACGGACGCGGGCCGGTGCCGGCCGGGACGCCGGG
CCCGCAGCCTAGCTCGCCATCTCGCTCACGCCGCCGCCGCCGCGGGGCCGTAGCCCCCGCCGGGCGGGGCC**ATG**

CAGGAGAGCCAGACCAAGAGCATGTTTCGTGTCCCGGGCCCTGGAGAAGATCCTAGCCGACAAGGAGGTGAAGCGG
CCCCAGCACTCCCAGCTGCGCAGGGCCTGCCAGGTGGCGCTCGATGAAATTAAAGCAGAAATAGAAAAGCAGAGG
CTTGGCACTGCTGCACCACCAAGGCAAACTTCATTGAAGCTGACAAGTATTTTCTTCCATTTCGAGCTAGCTTGC
CAGTCCAAGTCCCCAAGGGTAGTCAGCACATCCCTTGACTGCTTGCAGAACTCATCGCATACGGGCACATCACT
GGCAACGCCCCCTGACAGTGGAGCCCCCTGGGAAGCGGCTGATCGACAGAATTGTTGAAACCATTTCAGTTGTTTT
CAGGGCCCTCAGACTGATGAAGGGGTTCAAGTTACAAATAATTAAGGCTCTTCTGACTGCAGTGACTTCCCCACAC
ATTGAAATTCATGAGGGTACTATCCTGCAGACAGTGAGAACATGTTACAATATCTATTTGGCCAGCAAAAATCTC
ATCAATCAAACCACTGCCAAGGCTACCCCTTACTCAGATGCTGAACGTCATTTTACCCCGCATGGAACCAAGTG
TTGCAGGAGGCCAGAGAACTGGAAAAACCAATCCAGTCAAAACCCCACTCCCTGTGATCCAAGCTGCAGCAGTA
TCCCCAAAGTTCGTTTCGTTTGAAGCACAGTCAGGCACAAAGCAAACCAACTCCCGAAAAAACAGATTTAACC
AACGGTGAACATGCCAGGAGTGATTCTGGAAAAGTAAGCACAGAAATGGAGACGCACCCAGAGAAAGAGGCTCA
TCACTGTTCAGGGACTGATGACGGAGCCAGGAGGTGGTGAAGGACATCTTGAAGATGTAGTCACATCTGCCATT
AAAGAAGCAGCGGAAAAGCATGGTCTGACAGAACCTGAGAGAGTTCTAGGTGAACTGGAGTGCCAGGAATGTGCT
ATTCCCCCAGGAGTTGATGAAACTCACAGACCAACGGGATAGCCGATGACAGGCAGTCCTTGTCTGTCAGCAGAT
AATCTGGAATCGGATGCACAAGGACATCAAGTGGCTGCCAGGTTCTCCACGTTCTGCAGAAGGATGCCTTCCTT
GTGTTCCGCTCCCTGTGCAAGCTGTCCATGAAACCCCTTGGTGAAGGCCCTCCAGACCCAAAATCCCATGAGCTG
CGTTCCAAGGTGGTTTCCCTGCAGCTGCTCCTCTCTGTGTTGCAAAATGCTGGCCCCGTATTTCAGGACTCACGAG
ATGTTTCATCAATGCAATCAAGCAATATCTCTGTGTGGCCTTGTCCAAAACCGCGTCTCTTCAGTGCCGTATGTC
TTTGAGCTCTCTCTTGCCATTTTTCTTACTCTTCTTTCAAACCTTTAAAATGCACTTGAAAATGCAGATAGAGGTC
TTTTTCAAAGAGATTTTCTGAACATTTTAGAAACATCAACAAGTTCTTTTGAGCACAGGTGGATGGTCATTCAG
ACTCTGACGAGGATCTGTGCAGATGCCAGTGTGTTGTGGATATTTATGTCAACTACGACTGTGATTTAAATGCT
GCTAACATTTTTTGAGCGCCTTGTAATGATTTATCCAAAATTGCTCAGGGAAGAAGTGACATGAGCTGGGAATG
ACACCTCTGCAGGAGCTCAGCCTGAGGAAGAAAGGCCTGGAGTGCCCTCGTGTCCATTCTCAAGTGCATGGTGGAG
TGGAGCAAAAGACCTGTATGTGAATCCCAACCACCAGACCAGCCTCGGTGAGGAGAGGCTCACGGATCAGGAAATA
GGGGATGGGAAAAGCCTTGACATGGCAAGACGGTGTAGTGTGACGTCCATGGAGTCCACAGTGTCTCGGGGACC
CAGACAACTGTTTCAGGATGACCCTGAGCAATTTGAGGTTCATCAAGCAAAAAAAAAAAAAATCATTGAACACGGCATC
GAGCTGTTCAACAAGAAACCCAAAGAGGGGGATCCAGTTTCTCCAGGAGCAGGGCATGCTGGGAACGTCAGTTGAA
GACATAGCCCCAATTCCTGCACCAGGAGGAGCGCCTGGATTCCACCCAAGTAGGCGATTTTCTGGGAGATAGCGCA
AGGTTCAACAAGGAGGTGATGTATGCCTACGTGGACCAACTGACTTCTGTGAAAAGAATTTGTCTCAGCCCTG
CGGACATTCTAGAAAGTTTCCGCCTACCTGGAGAAGCCCAAAAGATTGACCGATTAATGGAGAAGTTTGCCGCA
AGATACATAGAATGCAACCAAGGGCAAACCTCTGTTTGCTAGTGCTGACACTGCTTATGTCTAGCGTATTCAATT
ATTATGCTGACTACAGACTTGACAGTCCCTCAGGTAAAAAATAAAATGACGAAAGAGCAGTATATTAATAATGAAT
CGGGGTATCAATGATAGTAAAGATCTGCCAGAAGAGTATCTCTCAAGCATCTATGAAGAGATAGAAGGCAAGAAA
ATTGCAATGAAAGAAACAAAAGAGCTAACGATTGCAACCAAAATCTACTAAGCAGAATGTAGCTAGTGAAAAGCAG
CGGCGGCTGCTGTACAACCTTAGAGATGGAGCAAATGGCTAAAACAGCCAAAGCTCTGATGGAGGCTGTGAGCCAT
GCCAAAGCCCCGTTTACCAGTGCCACTCACCTGGACCATGTCCGGCCAATGTTCAAACCTGGTGTGGACGCCACTA
TTGGCAGCCTACAGCATCGGACTCCAGAAGTGTGATGACACTGAAGTGGCCTCCTTGTGTTTGAAGGCATCCGA
TGTGCAATCCGAATCGCCTGCATCTTTGGAATGCAGCTGGAACGAGATGCCTATGTTTCAGGCTCTTGCTCGCTTC
TCCCTACTCACAGCCAGCTCCAGCATCACAAAATGAAGCAGAAAAACATCGACACCATTAAAGACGCTTATCACA
GTGGCTCACACCGATGGCAACTACCTTGGGAATTCCTGGCATGAGATCTTGAAATGCATCAGCCAGCTGGAGCTC
GCTCAGCTGATAGGAACCGGTGTGAAGACGCGCTACCTGTCTGGATCTGGGCGTGAAAGAGAAGGGAGCCTGAAG
GGCCACACATTGGCAGGAGAAAGAGTTCATGGGCCTTGGCCTCGGTAATTTGGTGAGTGGCGGAGTGAATAAAGA
CAGATGGCCAGCTTCCAAGAATCGGTTGGTGAGACCAGCTCGCAGAGTGTGGTTGTAGCTGTGGACAGGATTTTT
ACTGGGTCTACCAGACTGGATGGAAAATGCAATAGTTGACTTTGTCCGCTGGCTGTGTGCTGTGTCCATGGATGAA
CTGGCTTCCCCCACCATCCTCGCATGTTTCAGCTTGCAAGAGATTGTGGAGATATCATACTACAACATGAATCGG
ATCCGACTACAGTGGTCTCGAATATGGCATGTGATTGGAGATCACTTCAATAAGGTTGGCTGCAACCCTAATGAA

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FIGURE 2060B

GATGTGGCTATCTTTGCTGTTGACTCATTAAAGGCAACTCTCCATGAAGTTTCTTGAGAAGGGTGAATTAGCCAAC
TTCCGTTTCCAGAAAGATTTTCTGAGGCCCTTTGAGCATATTATGAAGAAAAACAGGTCTCCCACCATCCGGGAC
ATGGCGATCCGCTGCATTGCCAGATGGTGAACCTCCAGGCGGCCAACATCCGCTCAGGTTGGAAGAACATCTTT
GCCGTGTTCCACCAGGCAGCCTCTGATCATGATGGGAACATTGTGGAGCTGGCCTTCCAGACCCTTGCCACATT
GTCACAACATATTTTCCAGCACCATTTTCTGACGCCATCGATTCTTTTTCAGGATGCTGTGAAGTGCTTATCAGAG
TTCGCCTGCAACGCCGCTTTCCCTGACACGAGCATGGAAGCGATTTCGGCTCATCCGCTTCTGTGGCAAATACGTC
TCTGAGAGGCCTCGGGTGCTACAAGAATACACAAGTGATGACATGAATGTAGCTCCTGGTGACAGAGTCTGGGTC
CGAGGCTGGTTCCCATCTTATTGAACTCTCCTGCATCATTAAATAGATGCAAGTTAGATGTACGAACAAGGGGA
CTCACAGTCATGTTTGAGATCATGAAGAGCTATGGCCACACCTTTGAAAAGCACTGGTGGCAGGACCTGTTTCAGA
ATCGTGTTTCGGATTTTGTGACAATATGAACTCCCTGAGCAACTGTCAGAGAAATCTGAGTGGATGACAACAACC
TGCAATCACGCACTTTATGCTATTTGTGATGTTTTTACCCAGTTTTATGAAGCTTTGAATGAAGTTCTTCTTTCT
GATGTATTTGCACAATTGCAGTGGTGTGTCAAACAAGATAATGAACAGTTGGCGCGATCAGGTACAAATTGCTTA
GAAAACCTTAGTAATATCCAATGGAGAGAAATTCAGTCTGAAGTCTGGGATGAAACCTGCAACTGTATGTTGGAT
ATTTTCAAACAACCATCCACATGTTTTGCTGACATGGAGACCTGTAGGAATGGAGGAAGATTCATCAGAAAAG
CATTTGGATGTGGATCTGGACCGCCAGTCTTTAAGCAGCATAGATAAAAAATCCCTCTGAGAGGGGACAGAGCCAG
CTCTCTAACCCAACAGATGACAGCTGGAAGGGTAGACCATACGCAAATCAGAAACTGTTTGCCAGCCTCCTCATC
AAGTGTGTGGTCCAGTTGGAATTGATACAGACCATTGACAACATTGTGTTCTACCCTGCGACGAGCAAAAAGGAG
GATGCAGAGCACATGGTTGCCGCCAGCAAGACACGCTGGATGCAGATATCCACATAGAGACGGAGGATCAGGGC
ATGTATAAGTACATGTCTTCCAGCACCTCTTCAAGCTGTTGGACTGTTTGCAGGAATCCCATTCATTCTCAAAG
GCCTTCAACTCCAATTACGAGCAGCGGACTGTCTGTGGCGAGCAGGTTTTAAGGGCAAGTCTAAACCCAATCTT
CTAAAACAAGAAACCAGCAGCCTGGCCTGTTGTTTGAGGATCCTGTTTTCGAATGTATGTTGATGAGAACCGCAGG
GATTCCTGGGAAGAAATACAGCAGAGACTTTTAACTGTTTGCAGTGAAGCTCTTGCCATTTTCATCACTGTGAAT
TCTGAGAGCCATCGGGAGGCCTGGACAAGTCTCTTGTGTTACTTCTAACTAAAACCTCAAAAATAAATGATGAA
AAGTTCAAAGCACATGCTTCAATGTACTACCCCTACTTGTGTGAAATTATGCAGTTTGACCTGATCCCTGAGCTC
CGAGCAGTTCTGCGGAAGTTCTTCTACGGATAGGTGTTGTGTATAAGATATGGATACCAGAAGAGCCATCACAG
GTACCAGCAGCACTGTCAACAGTGTGGTAGCCCTGGCTGCCAGGCCAGTGCTGCAGCTCTGCAGAATGTTTCAGC
ATGCCATTTCTGACTGGCACATCTCGTGAAGTTTCATAGAAACAAGGAGTTGGCATCTTGATCTCAGAATGGCC
TGGAACCGGATGGCCTCTACGCTGTTCCATCACAGTCTCCAATAAGGCTTATGGTATTTTCATTAACTGTTGCA
TACCCAGTTAGCACAGTAGGTGGGGAGTCTGCTTCATTTCTATCATTCCATTTTTCTGATTAACTGTCAAATCT
GTCATTGCATATGCCATCGTTTTCTAGCAAAATCCCATGATTGGCTATAAACGTTTTGTAAAGAGTCACTCTCCT
TGAAAATACTGAACATAGCTGTATAGGTTTGTGATTATTAGAGAATATGTTAATAAACTTCTTGTAACGGCTAA
CTGCCACCTAAAATATGCTGGGTTTTCTGTTGTTTGAGTGTGTTAGAGAAATTTGAATGTTTTTGTCAATTACGA
GTCAGCCGTAAATTAGATTAGTTTAAAGACAGGTCAGGATTAGAGAAGAGTTGTTTTTGTGTTTGTTAATGTCTG
AGTGATTTTTTAAAGTATTTTACAAAAAGATATTGAAAATTTGGTTGAAGGCAGAGTTTAGTAATTAAGTTAGAAT
TAAGAGTTTTTGCAGGTTAAAAAATGTGCCTCGTGGATCTCCCTGTTTTAGTAACATGGAGAGAAAAAGTCTAC
ACGAAAAAGTGAACAATTTAATGAAGATGATTAGCCTTCCTTGAAATAAGTATTTGTGGATGGGTGTTAAATTAA
AATTTCCAGAATACACTGTCCATCTCACACACTCTGAAATCTAATATATGAAGTAGTAATGAAAATGAAGTAGTA
ATTTAACCAGAGTTTCAATTTATCCTTGAATAAACCTTTTTATTTTACCTCAGAAAAGTGAGTGTACTGGCAGTTA
GTGTCACCTGCTTTGCACAGTCCCATTAAGGACCTCCAGAGAGGGACAGTAACTGTGCATGAGAAGCCGCTCC
CATAAGCCTCCTCAGCCAGATGTCATGGGTGGAACCTGGAGCTGTGTCGGGGCCAGCACAGCTGAACTGTGACAAT
GGCAGGAGGTGGCATGTGCCAGCACTTCCATTAATCTGAGCCTAGGAGTTGAATTCCTTTGGCAAGGTTGGATTCT
TGAGGTCCCTTATTATGTTAATGATGGTGCAATACTCTCACCTGCAGTAGAACTGAGTTCTGCTGCAGCTTGTGTA
AAAGTGGGCAGTACACAAGTACGTCCCAAAGCCTGTGAGCAGTATACGTGGATGCTCACCCATGAGAAGGAGCAC
ACACGCCTCATTCTGCCCCTACCCACTGCTCACCTAGAGCATCGCTGAGCGTTAGACAAAGTGTTACACAGAA
TGATTAAAACCTTTCAGACTTCTACCTATGCTCTTTAGTCCTGTAAATTGGGTTGTATTGATGTCAACTCTGGTGC
CTTAGAAGTTAGTAGTTTGGGAACCTATCTGTAAAATCAGATGTTTTTTCTTTGTAGAGAAGGATTTCTGGTGCT
TTTGCTTACTAAGAGACCGATATTCTTAAGTTGTTTTCTTGTGTTTTAACAGCCTTGAGAAATGTTTGGTTTTGGCC
AGCAGAATTCTTGTCTACTTTTTTTCTTTCCCAAAGTGTTTTTTAATTTCTCTACCAAAGAAAAAATGAGCAGG

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FIGURE 2060C

TTTAGGTTTTTACATGACTTATATACATTAGATAAAAAGGAGCTGTATAATTTAGCAGGAAAGGACTATGGGAGAA
TACTTTACTGTGAGTGGAAAATGTTAGCACATTTGACTGGTTTGCCCTGGAATCCACTGCACCTTTACACTGCAC
CATGAAACCTACACTCCCTGGTATCATAGCGCGTCATCACCTCAACAAGTCAGTCGTCTCCATTGATATTTGTAC
AAAAGGTATACATGGGGAACACGTGTTCAATTCATTAAGTCCATCTTGCGTGCAGCTATATCCCTGATTGGTTATT
TTTCCTTTCTTCTGAGGTTCTCATGTCAATTTCTTCATCGGATGTGACTAAAATTTTTCTGGTGTCTTCTGCC
TCTCTTTAATTTTTGCCTCTTGAGGGGTAGCAGATGTGTCAGTGCATTTTATTACTTGCTGAAACATTCAGGCTTA
CATTTCTTATTAGTTTAGTATTTTAAAAGATTTAATTTTCTGAATGAGGCATTTGAATTGTACCAGCAATGGACT
TTTAAAAAATTGGATGTAAACCATTACAGGGTGATTTTTCTTGTCAGTGGACAGTGACGAACAGAGATTTGAAAT
CCCTTACCTCCAATAATAAGCCATTCAGCCTAAATTCATTTTTATGAATAAATCTCTTCTTCTCATGGTAAATG
TGGCTTGTGCCACTCAAACACTAGTGAAAGGGTATGTACAACCGCAACATCAGGCCAGGACACCATTTATTTAAC
CAAGTAATGGAGGAGAGTGAAACATTTTCCAAGGCCTTATTTCTTTTTTCATAATGCTTTAAGTGTGATTATATG
TGCTGGGTCTCTAGAGAAGTTTTTATTTGTTACAATACTGCTGCTTTGAGCAATTTTGTTTCTCTTCATTGTCTG
TTAGGGGAATCACCAGCTTTGGCATCTTAACAACAGACAGTGGATGGGTAATTTTTATTTCTGATACGCATCTTT
AGAGTCAAATATATCTTTTCCCTGTACTCCTCATGTACAACCAAAGAACATACATTATGAAAATTGTATTATAAT
ATCTGGAAACACAACATTTTCTCTGGCAGGTGACTTTTGTACGAAATGAAAAAAAAAACCTGTATTTTTTTTG
TTGTTCTTTTGTGATTAAAGGATATACATTTAGTAGTCTTTGTTATTAAAGGAACCTGCTGATAAGTACAAGTGTG
ACCATCTCATTCAAATGTTTGTGTTATGATGCAAATGGATATTGGTTTCAATAGAAGCTGGATCCTTAATACTG
CATTTTCTGAATTCGTTTTAATATTTGTGTTAAAGTAGACATAGCTGAACTCACATGGAATCCTGGAGTTTGT
TATCAGCAGCTTTGCAGTTTGGGAAACAAAGAAACCAAAGCTGAGTGTTTTAAAGAATGAACATATCTGGAAATC
CTTGCTCTCAAAACAAAACAATATAATCTATCAAAGGTGTTTTACTCAGTGTTCTAATTTTTAAAAAATTTTATC
TGCATATTTGCATCAAATATTTATGTGTAAAAATGTATGTTTTACCTCCTTAAATGCCTAAAAAGTTAGTTAATAG
TTACTTTGGTTTAAACCTATACACAATGATTAAAGTGCATTTAATATTGGTAATTTAATGAAAAACCATTCCTTGCCC
AATGGATGTATAAATTTTTGAAAGAATAAGCAGAAATTATATAATATGAAATGCTATGTAAAGTTTTCTATGTAAA
AATATTATGTATAATACTATTAAATATCCCATGCTTTGATCAGGTGGTACATCAATAAAATTTTAAAAAGT

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FIGURE 2061

MQESQTKSMFVSRALEKILADKEVKRPQHSQ LRRACQVALDEIKAEIEKQRLGTAAPPKANFIEADKYFLPFELA
CQSKSPRVVSTSLDCLQKLIAYGHITGNAPDSGAPGKRLIDRIVETICSCFQGPQTDEGVQLQIIKALLTAVTSP
HIEIHEGTILQTVRTCYNIIYLASKNLINQTTAKATLTQMLNVIFTRMENQVLQEARELEKPIQSKPQSPVIQAAA
VSPKFVRLKHSQAQSKPTTPEKTDLTNGEHARSDSGKVSTENGDA PRERGSLSGTDDGAQEVVKDILEDVVTSA
IKEAAEKHGLTEPERVLGELECQECAIPPGVDENSQTNGIADDRQSLSSADNLESDAQGHQVAARFSHVLQKDAF
LVFRSLCKLSMKPLGEGPPDPKSHELRSKVVS LQLLSVLQONAGPVFRTHEMFINAIKQYLCVALSKNGVSSVPD
VFELSLAIFLTLSSNFKMHLKMQIEVFFKEIFLNILETSTSSFEHRWMVIQTLTRICADAQCVVDIYVNYDCDLN
AANIFERLVNDLSKIAQGRSGHELGMTPLQELSLRKKGLECLVSI LKCMVEWSKDLYVNP NHQTS LGQERLTDQE
IGDGKGLDMARRCSVTSMESTVSSGTQTTVQDDPEQFEVIKQKKK IIEHGIELFNKKPKRGIQFLQEQGMLGTSV
EDIAQFLHQEERLDSTQVGDFLGDSARFNKEVMYAYVDQLDFCEKEFVSALRTFLEGFRLPGEAQKIDRLMEKFA
ARYIECNQGQTLFASADTAYVLAYSIIIMLTDDLHSPQVKNKMTKEQYIKMNRGINDSKDLPEEYLSSIYEEIEGK
KIAMKETKELTIATKSTKQNVASEKQRRLLYNLEMEQMAKTAKALMEAVSHAKAPFTSATHLDHVRPMPFKLVWTF
LLAAYSIGLQNCDDTEVASLCLEGIRCAIRIACIFGMQLERDAYVQALARFSLLTASSSITKMKQKNIDTIKTLI
TVAHTDGNYLGNWHEILKCISQLELAQLIGTG VKTRYLSGSGREREGSLKGHTLAGEEFMGLGLGNLVSGGVNK
RQMASFQESVGETSSQS VVVAVDRIFTGSTRLDGNAIVDFVRWLCVSMDELASPHHPRMFS LQKIVEISYNNMN
RIRLQWSRIWHVIGDHFNKVGCNPNEDVAIFAVDSL RQLSMKFLEKGELANFRFQKDFLRPF EHHMKNRSPTIR
DMAIRCIAQMVNSQAANIRSGWKNIFAVFHQAASDHDGNIVELAFQTTCHIVTTIFQHHPAAIDSFQDAVKCLS
EFACNAAFPDTSM EAIRLIRFCGKYVSERPRVLQEYTSDDMN VAPGDRVWVRGWFPILFELS CIINRCKLDVRTR
GLTVMFEIMKSYGHTFEKHWWQDLFRIVFRIFDNMKLPEQLSEKSEWMTTTCNHALYAICDVFTQFY EALNEVLL
SDVFAQLQWCVKQDNEQLARSGTNCL ENLVISNGEKF SPEVWDETCNCMLDIFKTTIPHVLLTWRPVGMEEDSSE
KHLDVDLDRQSLSSIDKNP SERGQSQLSNPTDDSWKGRPYANQKLFASLLIKCVVQLELIQTIDNIVFY PATSKK
EDAHEMVAAQQDTLDADIHIETEDQGM KYMSSQH LFKLLDCLQESH SFSKAFNSNYEQRTVLWRAGFKGSKPN
LLKQETSSLACCLRILFRMYVDENRRDSWEEIQQRLLTV CSEALAYFITVNSESHREAWTSLLLLLLTKTLKIND
EKFKAHASMYYPYLCEIMQFDLIPELRAVLRKFFLRIGVVYKIWIPEEPSQVPAALSPVW

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FIGURE 2062

TCATGTCACAGCCAAAGCAGAGGGCTGGCAGGCAGCGTGCGGCAGAAGATGCTTCTCGACTACAGCGGTACATG
GGCAGGTGTGTCCCCAGGAAAGCCGAAGCCCCCAGAGGAGCCCCCTGCAGAGTGCGGAGAGCAGCCCCACAGCT
GGGAAGAAGTTGCCAGAGGTTCCACCCCTCTGAGGAGGAAGAACAGGAAGCCTGGGTGAATGCCTTGCTTGGAAGA
ATATTTTGGGACTTCTTAGGAGAGAAATACTGGTCTGATCTGGTGTCTAAGAAGATCCAAATGAACTCAGCCAA
ATAAAGCTCCCCTACTTTAGGAATGAGCTCACTCTGACGGAACCTTGACATGTGCGTGGCTTTGCCAAAAAATCCT
CCGGGCCCTTCAAGCCTTACGTTGATCACCAAGGACTCTGGATTGATTTGGAAATGTCCTACAATGGGTCTTTCT
GATGACTCTCGAGACCAAAATGAATTTGCCTAAACTAGGTAAAGAGCCTCTTGTTGAAGCCCTGAAGGTTGGAGA
AATTGGCAAAGAAGGTTGCAGGCCCGGGCATTCTGTCTGGCGGACAGCGATGAGGAATCCTCCAGCGCTGGCTC
CTCCGAGGAAGACGATGCCCCAGAGCCAGCGGGGAGACAAACAGCTCCTCCCAGGGGCTGAAGGTACGTTGG
AGGTCATCGAACAAGTAAGATTATGAGGTTTGTGATAAAATTACCAAGTCAAAATATTTCCAAAAAGCAACAGA
GACAGAGTTTATTAAAAAGAAGATCGAAGAAGTCTCCAACACACCCCTGCTGCTCACTGTTGAAGTACAAGAATG
TAGAGGAACCTTGGCGGTCAACATTCCACCACCCCGACTGACCGAGTATGGTATGGTTTCCGAAAGCCACCACA
TGTGGAGCTGAAAGGGCCAAAACCTTGGAGAGAGAGAAGTGACTTTAGTTTCATGTGACAGACTGGATAGAGAAGAA
ACTGGAGCAAGAGTTTCAGAAAGTTTTTGTGATGCCAAACATGGATGATGTTTATATCACTATAATGCACTCAGC
CATGGACCTCGCTCTACTTCCTGCCTCCTGAAAGACCCACCTGTGGAGGCTGCTGATCAGCCAATGAGTGGGTGAT
GTCAGATGTTCCCATATTGTACATCGAGCTGGATGTGTGGGGTTCTTGGCCGCCATCTGTACTGTAGCACTGGC
CTCTGTGCCACAGCTACTGTTTCTTAAGGACTGCTTCTGCCCTCTGCCTGCCAGTGCCCATTCACCTGTGAGGTG
TCATTCCCTGCATCTAGTGACAACCTGTCTGGATTGCCCTGCTGCAAACGTTTGATTTGGCAAAGGAGACCATGGAA
GAATCATGGTGGATCCAGAAGTTATACGTGACCCACACCATGGCTTTTAAAAGTCTACCCATGTTTGTGGCAGCA
AATGAGCACAGTAAGAGCAAAGCTGAACAACCTGCCTCCTCTACTCCTCCAAAGCTTTTCTTCAGGCAGCCGGTG
CACAGTGGACTTTTTCACTTCTATACTTTGTATGCGGCCTTCCACACTTCCAGAGAATGTCAGTGTGCAATGTGT
CTGGAGGGTGGGAGAGGAATTCTGTGGAGGCCTTTTCATTTGCGGTGACAGAAGAGATGGGCAGAXAATTATTT
TCCACATTAAATTGTGCATTTGGGAAGCAAGTAGCCATAGTACACACACAACACGCTATCAGCTTGGGTAAGGAC
AGTGGGATTTATGTGAACATCATGGCAAAGCAXTGAGATCAAACCATCCCAAGCCTTTACCAATGAGGTACAAC
CACCTGGGGGCTAGCTAATCTTGAATGTTTTCTTGAGACAGGAGCGTATGTGAAAACATCAAACACTGCACATGA
CAGGATGGGTCTCTCATACAGXTGGGATGGGGTTAAGAAAGCCAGAGCCAGTTTTTCCATCTGGCGTTTCTGTG
TCCTCCAGGTTTATATGGGAATCGAAACAGTTTGTTAATCTGATTGGGAGAGTTCCATGGGCAGATTTCCCTTCC
TGAAGGCCAAAACGGAGAAGTCTCTCTTTAATTATTTCAAGAGTCAAGACCAAAGTTTGCTCAGCATCACACT
ACATCTCAAAATTAATGTTGCCAACTTAATTTTGTGCATTTGTGTGAGAATGTTTAGTTTACAAGGTTGGGGGCT
CTCTTTGCTTCGAGAAGTAAACCTAATACCATTTTTTTAATTGTTTAAAGCTGCATTCAACGTCAAAATTACCTTG
GGTAACTTTTGATAACTTACATGTGTGGACAAAGCTAATAGTGGTTTTTTAAACAGCACCTTGCCTGAACATGAC
TTTAAAGAAATTAATATATTGAAAACATGTTTGAACCCTTATTTTAATTGCACCATTAAAACATTTGACTTAAAA
AAAAAAAAAAAAAA

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FIGURE 2063

MSYNGSFLMTLETKMNLPKLGKEPLVEALKVGEIGKEGCRPRAFCLADSDEESSSAGSSEEDDAPEPSGGDKQLL
PGAEGYVGGHRTSKIMRFVDKITKSKYFQKATETEFIKKKIEEVSNTPLLLTVEVQECRGTAVNIPPPPTDRVW
YGFRKPPHVELKGPKLGEREVTLVHVTDWIEKKLEQEFQKVFVMPNMDVYITIMHSAMDPRSTSCLLKDPPVEA
ADQP

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FIGURE 2064

GATCGGGCGGCGCCGAGCTGAGGTGGTGAGGGACTAGCTCCCGGATGTGGAGAAGCTGGGGAGAAGGCGTGGGAG
GAAG**ATG**GACTCGGTGGAGAAGGGGGCCGCCACCTCCGTCTCCAACCCGCGGGGGCGACCGTCCCGGGGCCGGCC
GCCGAAGCTGCAGCGCAACTCTCGCGGGCGGCCAGGGCCGAGGTGTGGAGAAGCCCCCGCACCTGGCAGCCCTAAT
TCTGGCCCCGGGGAGGCAGCAAAGGCATCCCCCTGAAGAACATTAAAGCACCTGGCGGGGGTCCCGCTCATTGGCTG
GGTCCTGCGTGC GGCCCTGGATTTCAGGGGCCCTTCCAGAGTGTATGGGTTTCGACAGACCATGATGAAATTGAGAA
TGTGGCCAAACAATTTGGTGCACAAGTTTCATCGAAGAAGTTCTGAAGTTTCAAAGACAGCTCTACCTCACTAGA
TGCCATCATAGAATTTCTTAATTATCATAATGAGGTTGACATTGTAGGAAATATTCAAGCTACTTCTCCATGTTT
ACATCCTACTGATCTTCAAAAAGTTGCAGAAATGATTGAGAAGAAGGATATGATTCTGTTTTCTCTGTTGTGAG
ACGCCATCAGTTTCGATGGAGTGAAATTCAGAAAGGAGTTCGTGAAGTGACCGAACCTCTGAATTTAAATCCAGC
TAAACGGCCTCGTCGACAAGACTGGGATGGAGAATTATATGAAAATGGCTCATTTTATTTTGCTAAAAGACATTT
GATAGAGATGGGTTACTTGCAGGGTGGAAAAATGGCATACTACGAAATGCGAGCTGAACATAGTGTGGATATAGA
TGTGGATATTGATTGGCCTATTGCAGAGCAAAGAGTATTAAGATATGGCTATTTTGGCAAAGAGAAGCTTAAGGA
AATAAACTTTTGGTTTGCAATATTGATGGATGTCTCACCAATGGCCACATTTATGTATCAGGAGACCAAAAAGA
AATAATATCTTATGATGTAAAAGATGCTATTGGGATAAGTTTATTAAAGAAAAGTGGTATTGAGGTGAGGCTAAT
CTCAGAAAGGGCCTGTTCAAAGCAGACGCTGTCTTCTTTAAACTGGATTGCAAATGGAAGTCAGTGTATCAGA
CAAGCTAGCAGTTGTAGATGAATGGAGAAAAGAAATGGGCCTGTGCTGGAAAGAAGTGGCATATCTTGGAAATGA
AGTGTCTGATGAAGAGTGCTTGAAGAGAGTGGGCCTAAGTGGCGCTCCTGCTGATGCCTGTTCTACTGCCCAGAA
GGCTGTTGGATACATTTGCAAATGTAATGGTGGCCGTGGTGCCATCCGAGAATTTGCAGAGCACATTTGCCTACT
AATGGAAAAGGTTAATAATTCATGCCAAAAA**TAG**AAATTAGCGTAATATTGAGAAAAAATGATACAGCCTTCTT
CAGCCAGTTTGCTTTTATTTTGGATTAAAGTAAATTCATGTTGTAATGTTACAGAGAGTGTGATTTGGTTTGTGA
TATATATATATTGTGCTCTACTTTTCTCTTTACGCAAGATAATTATTTAGAGACTGATTACAGTCTTTCTCAGAT
TTTGTAGTAAATGCAAGTAAGAACATCATCAAAGTTCACCTTTGTATTGTACCCTGTAAAAGTGTGTGTTGTGTGC
TTTCAAAGATGTTGGGATTTTATTTATCTGGGGACAGTGTGTATGGTAAGACATGCCCTTCTATTAATAAAACTA
CATTTCTCAAACCTGA

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FIGURE 2065

MDSVEKGAATSVSNPRGRPSRGRPPKLQNSRGGQGRGVEKPPHLAALILARGGSKGIPLKNIKHLAGVPLIGWV
LRAALDSGAFQSVWVSTDHDEIENVAKQFGAQVHRRSSEVSKDSSTSLDAIIEFLNYHNEVDIVGNIQATSPCLH
PTDLQKVAEMIREEGYDSVFSVRRHQFRWSEIQKGVREVTEPLNLPKRPRRQDWDGELYENGsfYFAKRHLI
EMGYLQGGKMAYYEMRAEHSVDIDVDIDWPIAEQRLRYGYFGKEKLKEIKLLVCNIDGCLTNNGHIYVSGDQKEI
ISYDVKDAIGISLLKKSGIEVRLISERACSKQTLSSLKLDCKMEVSVSDKLAVVDEWRKEMGLCWKEVAYLGNEV
SDEECLKRVGLSGAPADACSTAQKAVGYICKNGGRGAIREFAEHICLLMEKVNNSCQK

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FIGURE 2066

GGGCTGACTGGAGGCTGGCGGACAGGCGACAGACCTGCGGCAGGACCAGAGGAGCGAGACGAGCAAGAACCACAC
CCAGCAGCA**ATG**TCAGCGGAAGTGGAAACCTCAGAGGGGGTAGACGAGTCAGAAAAAAGAACTCTGGGGCCCTA
GAAAAGGAGAACCAAATGAGAATGGCTGACCTCTCGGAGCTCCTGAAGGAAGGGACCAAGGAAGCACACGACCGG
GCAGAAAACACCCAGTTTGTCAAGGACTTCTTGAAAGGCAACATTAAGAAGGAGCTGTTTAAAGCTGGCCACCACG
GCACTTTACTTTCACATACTCAGCCCTCGAGGAGGAAATGGAGCGCAACAAGGACCATCCAGCCTTTGCCCCTTTG
TACTTCCCCATGGAGCTGCACCGGAAGGAGGCGCTGACCAAGGACATGGAGTATTTCTTTGGTGAAAACGAGGAG
GAGCAGGTGCAGTGCCCCAAGGCTGCCCAGAAGTACGTGGAGCGGATCCACTACATAGGGCAGAACGAGCCGGAG
CTACTGGTGGCCCATGCATACACCCGCTACATGGGGGATCTCTCGGGGGGCCAGGTGCTGAAGAAGGTGGCCAG
CGAGCACTGAAACTCCCCAGCACAGGGGAAGGGACCCAGTTCTACCTGTTTGAGAATGTGGACAATGCCCAGCAG
TTCAAGCAGCTCTACCGGGCCAGGATGAACGCCCTGGACCTGAACATGAAGACCAAAGAGAGGATCGTGGAGGAG
GCCAACAAGGCTTTTGTAGTATAACATGCAGATATTCAATGAACTGGACCAGGCCGGCTCCCACTGGCCAGAGAG
ACCTTGAGGATGGGTTCCTGTACACGATGGGAAAGGAGACATGCGTAAATGCCCTTTCTACGCTGCTGAACAA
GACAAAGGTGCCCTGGAGGGCAGCAGCTGTCCCTTCCGAACAGCTATGGCTGTGCTGAGGAAGCCCAGCCTCCAG
TTCATCCTGGCCGCTGGTGTGGCCCTAGCTGCTGGACTCTTGGCCTGGTACTACATG**TGA**AGCACCCATCATGCC
ACACCGGTACCCTCCTCCCGACTGACCACTGGCCTACCCCTTTCTCCAGCCCTGACTAAACTACCACCTCAGGTG
ACTTTTTAAAAATGCTGGGTTTAAGAAAGGCAACCAATAAAAGAGATGCTAGAGCCTCGTCTGACAGCATCCTC
TCTATGGGCCATATTCCGCACTGGGCACAGGCCGTCACCCTGGGAGCAGTCGGCACAGTGCAGCAAGCCTGGCCC
CCGACCCAGCTCTACTCCAGGCTTCCACACTTCTGGGCCCTAGGCTGCTTCCGGTAGTCCCTGTTTTTGCAGTAC
ATGGGTGACTATCTCCCCTGTTGGAGGTGAGTGGCCTGTAAGTCCAAGCTGTGCGAGGGGGCCTTGCTGGATGCT
GCTGTACAACTTCTGGGCCTCTCTTGGACCCTGGGAGTGAGGGTGGGTGTGGGTGGAAGCCTCAGAGGCCCTGGG
AGCTCATCCCTCTCACCCAGAATCCCTCTAACCCCTGGGTGCGGTTTGCTCAGCCCCAGCTTATCTCCTCCTCCG
CCTGTGTAAATGCTCCAGCACTCAATAAAGTGGGCTTTGCAAGCTAAAAAAAAAAAAAAAAA

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FIGURE 2067

MSAEVETSEGVDESEKKNSGALEKENQMRMADLSELLKEGTKEAHDRAENTQFVKDFLKGNIKKELFKLATTALY
FTYSALEEEEMERNKDHPAFAPLYFPMELHRKEALTKDMEYFFGENWEEQVQCPKAAQKYVERIHYIGQNEPELLV
AHAYTRYMGDLGGQVLKKVAQRALKLPSTGEGTQFYLFENVDNAQQFKQLYRARMNALDLNMKTKERIVEEANK
AFEYNMQIFNELDQAGSTLARETLEDGFPVHDGKGDMRKCPFYAAEQDKGALEGSSCPFR TAMAVLRKPSLQFIL
AAGVALAAGLLAWYYM

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FIGURE 2068

GACGTCACGGTCACTGACAGCGTGAGCCCGCGGCGGCTGCTGCCATGGTGGCTGGCGGCCGGGTAAGGGTCTGAG
TGGATCTCCTGCCAGGCCAGAGCGCCTTCGGGGGCGCGGCGGAAGGCCAGGAGTTTGCAGCCAGGGCGCCGGGT
TTGTGGTCTGCAGTGTCTGTGAGGCTGAGGTGCAGC**ATGT**CTAGACTGGGAGCCCTGGGTGGTGCCCGTGCCGGGC
TGGGACTGTTGCTGGGTACCGCCGCCGGCCTTGGAATTCCTGTGCCTCCTTTACAGCCAGCGATGGAAACGGACCC
AGCGTCATGGCCGCAGCCAGAGCCTGCCCAACTCCCTGGACTATACGCAGACTTCAGATCCCGGACGCCACGTGA
TGCTCCTGCGGGCTGTCCCAGGTGGGGCTGGAGATGCCTCAGTGCTGCCCAGCCTTCCACGGGAAGGACAGGAGA
AGGTGCTGGACCGCCTGGACTTTTGTGCTGACCAGCCTTGTGGCGCTGCGGCGGGAGGTGGAGGAGCTGAGAAGCA
GCCTGCGAGGGCTTGCGGGGGAGATTGTTGGGGAGGTCCGATGCCACATGGAAGAGAACCAGAGAGTGGCTCGGC
GGCGAAGGTTTCCGTTTGTCCGGGAGAGGAGTGAAGTCCACTGGCTCCAGCTCTGTCTACTTCACGGCCTCCTCGG
GAGCCACGTTTACAGATGCTGAGAGTGAAGGGGGTTACACAACAGCCAATGCGGAGTCTGACAATGAGCGGGACT
CTGACAAAGAAAGTGAGGACGGGGGAAGATGAAGTGAGCTGTGAGACTGTGAAGATGGGGAGAAAGGATTCTCTTG
ACTTGAGGAAGAGGCAGCTTCAGGTGCCTCCAGTGCCCTGGAGGCTGGAGGTTCTCAGGCTTGGAGGATGTGC
TGCCCTCCTGCAGCAGGCCGACGAGCTGCACAGGGGTGATGAGCAAGGCAAGCGGGAGGGCTTCCAGCTGCTGC
TCAACAACAAGCTGGTGTATGGAAGCCGGCAGGACTTTCTCTGGCGCTGGCCCGAGCCTACAGTGACATGTGTG
AGCTCACTGAGGAGGTGAGCGAGAAGAAGTCATATGCCCTAGATGGAAGAAGAAGCAGAGGCTGCTCTGGAGA
AGGGGGATGAGAGTGCTGACTGTACCTGTGGTATGCGGTGCTTTGTGGTCAGCTGGCTGAGCATGAGAGCATCC
AGAGGCGCATCCAGAGTGGCTTTAGCTTCAAGGAGCATGTGGACAAAGCCATTGCTCTCCAGCCAGAAAACCCCA
TGGCTCACTTTCTTCTTGGCAGGTGGTGTCTATCAGGTCTCTCACCTGAGCTGGCTAGAAAAAAAAAACTGCTACAG
CCTTGCTTGAAAGCCCTCTCAGTGCCACTGTGGAAGATGCCCTCCAGAGCTTCCTAAAGGCTGAAGAACTACAGC
CAGGATTTTCCAAAGCAGGAAGGGTATATATTTCCAAGTGCTACAGAGAAGTGGGAAAAAACTCTGAAGCTAGAT
GGTGGATGAAGTTGGCCCTGGAGCTGCCAGATGTCACGAAGGAGGATTTGGCTATCCAGAAGGACCTGGAAGAAC
TGGAAGTCATTTTACGAGAC**TAA**CCACGTTTCACTGGCCTTCATGACTTGATGCCACTATTTAAGGTGGGGGGGC
GGGGAGGCTTTTTTTCCTTAGACCTTGCTGAGATCAGGAAACCACACAAATCTGTCTCCTGGGTCTGACTGCTACC
CACTACCACTCCCCATTAGTTAATTTATTCTAACCTCTAACCTAATCTAGAATTGGGGCAGTACTCATGGCTTCC
GTTTCTGTTGTTCTCTCCCTTGAGTAATCTCTTAAAAAAATCAAGATTACACCTGCCCCAGGATTACACATGGG
TAGAGCCTGCAAGACCTGAGACCTTCCAATTGCTGGTGAGGTGGATGAACTTCAAAGCTATAGGAACAAAGCACA
TAACTTGTCACTTTAATCTTTTTCACTGACTAATAGGACTCAGTACATATAGTCTTAAGATCATACCTTACCTAC
CAAGGTAAAAAGAGGGATCAGAGTGGCCACAGACATTGCTTTCTTATCACCTATCATGTGAATTCTACCTGTAT
TCCAGGGCTGGACCACTTGATAACTTCCAGTGTCCTGGCAGCTTTTGAATGACAGCAGTGGTATGGGGTTTATG
ATGCTATAAAACAATGTCTGAAAAGTTGCCTAGAATATATTTTGTACAACTTGAAATAAACCAAATTTGATGT
T

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FIGURE 2069

MSRLGALGGARAGLGLLLGTAAGLGFLCLLYSQRWKRTQRHGRSQSLPNSLDYQTSDPGRHVMLLRVPGGAGD
ASVLPSPREGQEKVLDRLDFVLTSLVALRREVEELRSSLRGLAGEIVGEVRCHMEENQRVARRRRFPFVRERSD
STGSSSVYFTASSGATFTDAESEGGYTTANAESDNERDSKESEDGEDEVSCETVKMGRKDSLDLEEEAASGASS
ALEAGGSSGLEDVLP LLQADELHRGDEQGKREGFQLLLNNKLVYGSRQDFLWRLARAYS DMCELTEEVSEKKS Y
ALDGKEEAEEALEKGDDESADCHLWYAVLCGQLAEHESIQRRIQSGFSFKEHVDKAIALQPENPMAHFLLGRWCYQ
VSHLSWLEKKTATALLSPLSATVEDALQSFLKAEELQPGFSKAGRVYISKCYRELGKNSEARWWWKLALLELPDV
TKEDLAIQKDLEEELEVILRD

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FIGURE 2070

AGCTTTTATTTTCTCCTCTCCAGTGGGGTTGGCTTTTATTGTTTCTTGTTTGGGTTTGGAATGGAAATATGGATA
GCAGCATAAAGTACTTTTATTTTGACAAAATTCATTTTTTTCAACAATGGAGACATAGATTGACCCACAATAAC
TTCTCCCCCTCTCTTTTTACTCTGCTCAAAAAGCATCTCTCCTCCCATTACCCAACCTTGGTGCATAAGTGTGCCT
GGCTGGTTTGCAGATATTTGTTCTGCTTTGTAAAAATTGGCCATTAGTGCATTTATTGAGATGATCTCTAAAGAG
CTATGCCCTGACCTACCCCTGATTCTATGACATTGGGGCCCTTCTTTTGCTGAAACTGCCTTACGTAATGGTTTT
ACTCCTTGAAAGAGATTTGACGGAATCCATTTTATGCCAAGTGCTGCCCTGCACTGTTTCTGCAATATGTGGTGT
ATGCTGTGGTGATCTTGCTGGGAATGATTATAAGTGTGTGTGTGATGGGGGAGTGGGTATTACATGCATTGCTGA
AGAGTCATCCTGGTGTTCCTCATTCTCCACCTTCCCGTGGTCATTTTAATTACGGGGCAGTGTACCCGCAAAG
GGAGGAAACTCAAAGCCGAAAGCAAATTCAGGCCTGATTCTGGCTTTTTGAGGTTCTTGTTCTTGAAGCCAGG
CCTGACCCGACTCTCAGATGGGGTCAGTCCCGTCGCTTTGCAGACTGACCCTGGAAATCTACAAAATGCAGATTT
TCCTGATTTCTCTTCTCTTGCCAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAGCCTGGATTGTAACCAG
ATTTTCTTTTTTCCCCCTTCTCAGCTGTAGATATGATACTCCTTTCAGGGCCCCAGCTTAAGGGCAAAGTGAGT
TAATGTGTAGACAAAGGCGAGGGACAAGAGAGAGTTAACATCTAGACAGTGGAAAAAGCCATGGTGTGTGGTTTC
TGGGAACCACCAACACTTGCAGGTTTAGCTTTTTCCCAGGGTTGACTACAAGAAAGAAAACCATGTTTTTGCAAG
ATTAAAATGTGGTTGAGTGTGCCTAAATTAACCATCCCCATTTTTATCATATTTCCACCATCACTTCAGGGTTTT
AAGAGTCAGTGCTCACCTGGGCGGAGCTGGTAGTACATTTTGCTTCTTAGAAAGCTAAGTCTGGGTTCCTGCTG
ATTTTAGGTTCCAGGAACCTCCTGAGAACACCCGATCGCAGAGGGTAATTTTCTGGAGTTTGTTTTGCAGGGATA
GCTGGGAGTATGGCCACCCTGCTCCACGATGCGGTAATGAATCCAGCAGAAGTGGTGAAGCAGCGCTTGCAGATG
TACAACTCGCAGCACCGGTCAGCAATCAGCTGCATCCGGACGGTGTGGAGGACCGAGGGGTGGGGGCCCTTCTAC
CGGAGCTACACCACGCAGCTGACCATGAACATCCCCCTTCCAGTCCATCCACTTCATCACCTATGAGTTCCTGCAG
GAGCAGGTCAACCCCCACCGGACCTACAACCCGCGAGTCCCACATCATCTCAGGCGGGCTGGCCGGGGCCCTCGCC

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FIGURE 2071

MVLLLERDLTESILCQVLPCTVSAICGVCCGDLAGNDYKCVCDGGVGITCIAEESSWCSSFLPPSRGHFNYGAVS
PQREETQSRKQNSRPDSGF

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FIGURE 2072

GGCGAAGGAGATCAGCAGGACGCTGCGCACAAC**ATG**GGCAACCACCTGCCGCTCCTGCCTGCAGAGAGTGAGGAA
GAAGATGAAATGGAAAGTTGAAGACCAGGATAGTAAAGAAGCCAAAAAACCAAACATCATAAATTTTGACACCACT
CTGCCGACATCACATACATACCTAGGTGCTGATATGGAAGAATTTTCATGGCAGGACTTTGCACGATGACGACAGC
TGTCAGGTGATTCCAGTTCTTCCACAAGTGATGATGATCCTGATTCCCGGACAGACATTACCTCTTCAGCTTTTTT
CACCCCTCAAGAACTCAGTATGGTGCGGAATTTAATTCAGAAAAGATAGAACCCTTTGCTGTTCTTGCATACAGCAAT
GTACAGGAAAGGGAAGCACAGTTTGAACAACAGCAGAGATATATGCCTATCGAGAAGAACAGGATTTTGGAATT
GAGATAGTGAAAGTGAAAGCAATTGGAAGACAAAGGTTCAAAGTCCTTGAGCTAAGAACACAGTCAGATGGAATC
CAGCAAGCTAAAGTGCAAATTCCTCCGAATGTGTGTTGCCCTTCAACCATGTCTGCAGTTCAATTAGAATCCCTC
AATAAGTGCCAGATATTTCTTCAAACCTGTCTCAAGAGAAGACCAATGTTTCATATAAATGGTGGCAGAAATAC
CAGAAGAGAAAGTTTCATTGTGCAAATCTAACTTCATGGCCTCGCTGGCTGTATTCTTATATGATGCTGAGACC
TTAATGGACAGAATCAAGAAACAGCTACGTGAATGGGATGAAAATCTAAAAGATGATTCTCTTCCTTCAAATCCA
ATAGATTTTTCTTACAGAGTAGCTGCTTGTCTTCTTATTGATGATGTATTGAGAATTCAGCTCCTTAAAATTGGC
AGTGCTATCCAGCGACTTCGCTGTGAATTAGACATTATGAATAAATGTACTTCCCTTTGCTGTAAACAATGTCAA
GAAACAGAAATAACAACCAAAAATGAAATATTCAGTTTATCCTTATGTGGGCCGATGGAGCTTATG**TGA**ATCCTC
ATGGATATGTGCATGAGACACTTACTGTGTATAAGGCTTGCAACTTGAATCTGATAGGCCGGCCTTCTACAGAAC
ACAGCTGGTTTCCTGGGTATGCCTGGACTGTTGCCAGTGTAAGATCTGTGCAAGCCCATATTGGATGGGAAGTT
TACGGCCACCAAAAAAGACATGTCACCTCAAAAATTTTGGGGCTTAACGCGATCTGCTCTGTTGCCACGATCCC
AGACACTGAAGATGAAATAAGTCCAGACAAAGTAATACTTTGCTTGTAACAGATGTGATAGAGATAAAGTTATC
TAACAAATTGGTTATATTCTAAGATCTGCTTTGAAAATTATTGCCTCTGATACATACCTAAGTAAACATAACATT
AATACCTAAGTAAACATAACATTACTTGGAGGGTTGCAGTTTCTAAGTGAACTGTATTTGAACTTTTAAGTAT
ACTTTAGGAAAACAAGCATGAACGGCAGTCTAGAATACCAGAAAACATCTACTTGGGTAGCTTGGTGCCATTATCCT
GTGGAATCTGATATGTCTGGTAGCATGTCATTGATGGGACATGAAGACATCTTTGGAATGATGAGATTATTTCC
TGTGTTAAAAAAAAAAAAA

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FIGURE 2073

MGNHLPLLP AESEEEDEMEVEDQDSKEAKKPNIINFDTSLPTSHTYLGADMEEFHGRTLHDDDDSCQVIPVLPQVM
MILIPGQTLPLQLFHPQEVSMVRNLIQKDRTFAYLAYSINVQEREAQFGTTAEIYAYREEQDFGIEIVKVKAIGRQ
RFKVLRLRTQSDGIQQAKVQILPECVLPSTMSAVQLES LNKCQIFPSKPVSREDQCSYKWWQKYQKRKFHCANLT
SWPRWLYSLYDAETLMDRIKKQLREW DENLKDDSLPSNPIDFSYRVAACLPIDDLRIQLLKIGSAIQRLRCELD
IMNKCTSLCCKQCQETEITTKNEIFSLSLCGPMELM

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FIGURE 2074

AGTCGTAGGCGCTGGCCGCTGAC**ATG**TTGAGGACTACGCGCGGCCAGGCCTGGGCCCCCGCTGCTCCAGGCCG
CGCTGGGCCTTGGGCGGGCTGGGTGGCACTGGCCTGCGGGCCGGGCGGCGAGCGGGGGCGCGGGCGGGCCTGGC
TGCAGCCACGGGCCGGGAGACGGGTGTGCAGGTGTACAACAGCCTCACCGGGAGGAAGGAACCCCTAATCGTGG
CGCAGCCGAAGCCGCCTCCTGGTATAGCTGTGGACCAACTGTATATGATCATGCGCACCTTGGCCATGCTTGCT
CATATGTTAGATTTGATATCATTCTGAAGGATCCTAACCAAGGTTTTTGGATGCAGCATAGTCATGGTGATGGGTA
TTACAGATGTAGATGATAAAATCATCAAAAGAGCCAATGAGATGAATATTTCCCCCGCTTCCCTCGCCAGTCTTT
ATGAGGAAGACTTCAAGCAGGACATGGCAGCCCTGAAGGTTCTCCACCCACGGTGTACCTGAGGGTAACCGAAA
ATATTCCTCAGATAATTTCTTTTCATTGAAGGAATCATTGCTCGTGGGAACGCTTATTCAACGGCAAAAAGGCAATG
TCTACTTCGATCTGAAGTCTAGAGGAGACAAGTATGGCAAATTGGTCGGCGTGGTCCCTGGTCCAGTCGGAGAGC
CAGCGGACTCTGACAAGCGTCATGCCAGTGACTTCGCCCTGTGGAAGGCGGCCAAACCCAGGAGGTGTTCTGGG
CCTCTCCCTGGGGACCCGGGAGGCCGGGCTGGCACATCGAGTGCTCTGCCATCGCTAGTATGGTATTTGGAAGTC
AACTGGATATCCATTTCAGGTGGGATAGATTTAGCTTTTCCACATCATGAGAACGAAATTGCACAGTGCGAAGTCT
TTCATCAGTGCGAGCAGTGGGGAAATTATTTTCTGCATTCTGGGCATTTGCACGCCAAAGGCAAAGAAGAAAAA
TGTCCAAATCATTAAAGAACTACATTACTATTAAGGACTTTCTGAAGACCTTTTCCCCGATGTCTTCCGGTTCT
TCTGCCTGCGGAGCAGCTACCGCTCAGCCATCGACTACAGTGACAGCGCCATGCTCCAAGCTCAGCAGCTGCTCC
TGGGGCTGGGCTCTTTCTGGAGGACGCACGTGCCTACATGAAGGGGAGCTGGCCTGCGGCTCCGTCAGGGAAG
CGATGCTGTGGGAGAGGCTCTCCAGCACCAAGAGGGCCGTGAAGGCGGCCTTGGCAGATGATTTTGACACACCCA
GGGTGGTTGATGCCATCCTGGGCCTTGACACACCACGGGAATGGACAGCTCAGGGCGTCCCTGAAGGAACCTGAAG
GGCCGAGAAGTCTGCTGTGTTTGGTGCCATCATCTCTTACTTTGAACAGTTTTTTTGAAACTGTTGGAATTTCTC
TGGCAAATCAACAGTACGTTTTCAGGAGACGGCAGCGAGGCTACCTTGATGGTGTGGTGGACGAGCTGGTGCGGT
TCCGGCAGAAAGTCCGGCAGTTTGCGCTGGCCATGCCCGAGGCCACGGGGACGCCCCGGCGGCAGCAGCTCCTAG
AAAGGCAGCCCCCTGCTGGAAGCATGCGACACCCTGCGCCGGGGCCTGACTGCCCACGGCATCAACATCAAGGACA
GAAGCAGTACAACATCCACGTGGGAAGTCTGGATCAAAGGACAAAAGACCAAAAATCAGCGGGCT**TCAG**AGGATGGA
GCACAGCCATGAACCTGCTCACGACAAGACGCACCCATGCTTCTCAGGGTCAAGGCTTTATGTTAAAGCTTCCTG
TCGGGGCTGCTAGGTCAGCATTAAAGTAAGGCAACCAACAGTG

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FIGURE 2075

MLRTTRGPGLGPPLLQAALGLGRAGWHWPAGRAASGGRGRAWLQPTGRETGVQVYNSLTGRKEPLIVAHAEAAASW
YSCGPTVYDHAHLGHACSYVRFDIIRRIILTKVFGCSIVVMGITDVDDKIIKRAMENMISPASLASLYEEDFKQD
MAALKVLPPTVYLRVTENIPQIISFIEGIIARGNAYSTAKGNVYFDLKSRGDKYGKLVGVVPGPVGEPADSDKRH
ASDFALWKAAPQEVFWASPWGPGRPGWHIECSAIASMVFGSQLDIHSGGIDLAFFPHHENEIAQCEVFHQCEQWG
NYFLHSGHLHAKGKEEKMSKSLKNYITIKDFLKTFSPPVFRFFCLRSSYRSAIDYSDSAMLQAQQLLLGLGSFLE
DARAYMKGQLACGSVREAMLWERLSSTKRAVKAALADDFDTPRVVDAILGLAHHGNGQLRASLKEPEGPRSPAVF
GAIISYFEQFFETVGLISLANQQYVSGDGSEATLHGVVDELVRFRQKVRQFALAMPEATGDARRQQLLERQPLLEA
CDTLRRGLTAHGINIKDRSSTTSTWELLDQRTKDQKSAG

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FIGURE 2076

CATTAACCTGCTGGATTACCTGCCGGAGATCCTGGATGGACTCTTCCAGATCCTGGGTGACAATGGCAAAGAGAT
TCGCAAAATGTGTGAGGTTGTTCTTGGAGAATTCTTAAAGAAATTAAGAAGAACCCCTCCAGTGTGAAGTTTGC
TGAGATGGCCAACATCCTGGTGATCCACTGCCAGACAACAGATGACCTCATCCAGCTGACAGCCATGTGCTGGAT
GCGGGAGTTTCATCCAGCTGGCGGGCCGCGTCATGCTGCCTTACTCCTCCGGGATCCTGACTGCTGTCTTGCCCTG
CTTGGCCTACGATGACCGCAAGAAAAGCATCAAAGAAGTGGCCAACGTGTGCAACCAGAGCCTGATGAAGCTGGT
CACCCCGGAGGACGACGAGCTGGATGAGCTGAGACCTGGGCAGAGGCAGGCAGAGCCCACCCCTGACGATGCCCT
GCCAAAGCAGGAGGGCACAGCCAGTGGAGGTCCAGATGGTTCTGTGACTCCAGCTTCAGTAGCGGCATCAGTGT
CTTCACTGCAGCCAGCACTGAAAGAGCCCCAGTGACCCTTCACCTCGACGGGATCGTGACGGTCCTAAACTGCCA
CCTCAGTGACACGGCCATTGGGATGATGACCAGGATTGCAGTTCTCAAGTGGCTCTACCACCTCTACATCAAAAC
TCCTCGGAAGATGTTCCGGCACACGGACAGCCTCTTCCCATCCTACTGCAGACGTTATCGGATGAATCGGATGA
GGTGATCCTGAAGGACCTGGAGGTGCTGGCAGAAATCGCTTCCCTCCCGCAGGCCAGACGGATGACCCAGGCCC
CCTCGATGGCCCTGACCTCCAGGCCAGCCACTCAGAGCTCCAGGTGCCACCCCTGGCAGAGCCGGCCTACTGAA
CACCTCTGGTACCAAAGGCTTAGAATGTTCTCCTTCAACTCCCACCATGAATTCTTACTTTTATAAGTTTCATGAT
CAACCTTCTCAAGAGATTACAGCAGCGAACGGAAGCTCCTGGAGGTGAGAGGCCCTTTCATCATCAGGCAGCTGTG
CCTCCTGCTGAATGCGGAGAACATCTTCCACTCAATGGCAGACATCCTGCTGCGGGAGGAGGACCTCAAGTTCGC
CTCGACCATGGTCCACGCCCTCAACACCATCCTGCTGACCTCCACAGAGCTCTTCCAGCTAAGGAACCAGCTGAA
GGACCTGAAGACCCTGGAGAGCCAGAACCTGTTCTGCTGCCTGTACCGCTCCTGGTGCCACAACCCAGTCACCAC
GGTGTCCCTCTGCTTCCCTACCCAGAACTACCGGCACGCCTATGACCTCATCCAGAAGTTTGGGGACCTGGAGGT
CACCGTGGACTTCCTCGCAGAGGTGGACAAGCTGGTGCAGCTGATTGAGTGCCCCATCTTCACATATCTGCGCCT
GCAGCTGCTGGACGTGAAGAACAACCCCTACCTGATCAAGGCCCTCTACGGCCTGCTCATGCTCCTGCCGCAGAG
CAGCGCCTTCCAGCTGCTCTCGCACCGGCTCCAGTGCGTGCCCAACCCCTGAGCTGCTGCAGACCGAAGACAGTCT
AAAGGCAGCCCCCAAGTCCCAGAAAGCTGACTCCCCTAGCATCGACTACGCAGAGCTGCTGCAGCACTTTGAGAA
GGTCCAGAACAAGCACCTGGAAGTGCGGCACCAAGCGGAGCGGGCGTGGGGACCACCTGGACCGGAGGGTTGTCTT
CTGACAGGCCTGGCACGGAGGAGGGCCACCGAGTGGTCCCATGAAACACTAAGGGTCGTACGCCCTCCCGAGG
AGCTCAAGGACCTGCCTGTCTCAGAGTCCAGTCCCCAGGCCTCCAGCGCTGTCAGCTGCACCCTGGCATTCTCACAGA
GCTGGCTGCCACCCAGTGGGGGGCTATAGCCTCAGAGACCACTCATCCTCTGGAATCAACCTCTTTCTAATACC
CTCTTGAAAAAGAGCTTGCCCTCCTCCAGCACACTAGAGCTCTGGCCTTGTGTGTATATGTATACATACGTGA
ACACATGCCTGTGTGTGTGTGTGTGTGTGTACTTGTATGCACGTAGGCACCAGCACAAAGATCTGAATGATGC
ACCCACCCCCACCCCAATAAAGAAATAACAGAAAACCTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2077

MANILVIHCQTTDDLIQLTAMCWMREFIQLAGRVMLPYSSGILTAVLPCLAYDDRKKSIKEVANVCNQSLMKLVT
PEDDELDELPGQRQAEPTPDDALPKQEGTASGGPDGSCDSSFSSGISVFTAASTERAPVTLHLDGIVQVLNCHL
SDTAIGMMTRIAVLKWLYHLYIKTPRKMFRHTDSLFPILLQTLSDSEDEVILKDLEVLAEIASSPAGQTDDPGPL
DGPDLQASHSELQVPTPGRAGLLNTSGTKGLECSPSTPTMNSYFYKFMINLLKRFSSERKLEVRGPFIIIRQLCL
LLNAENIFHSMADILLREEDLKFASTMVHALNTILLTSTELFQLRNQLKDLKTLESQNLFCCLYRSWCHNPVTTV
SLCFLTQNYRHAYDLIQKFGDLEVTVDFLAEVDKLVQLIECPIFTYLRQLLDVKNNPYLIKALYGLLMLLPQSS
AFQLLSHRLQCVPNPPELLQTEDSLKAAPKSQKADSPSIDYAELLQHFEKVQNKHLEVRHQRSRGDHLDRRVL

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FIGURE 2078

ATGGGGCCACGGGCCCCACCGCCGCCCGGGAGGACCGAGCCTAAGAGGGCAGCCGCCTGAAGGAACGCGACG
GCGGCGCCCGCAGTATTTTTTCAGTGCTGTACAAGCGTCTTGAATTACTCTGGTAGCTTTTCCAGAAAGACCC**ATG**

ACTTCACCACATTTCTCGAGTTACGATGAAGGTCCTCTGGATGTCAGCATGGCAGCCACAAACCTGGAGAACCAG
CTGCACAGCGCACAGAAGAACCTCCTGTTCCCTTCAGCGGGAGCATGCCAGCACGCTCAAGGGGCTGCACTCCGAG
ATCAGGCGGGCTGCAGCAGCACTGCACAGATTTAACATATGAGCTGACAGTCAAAAGTTTCGGAACAGACAGGAGAC
GGGACTTCTAAAAGCAGTGAATTAAGAAAAGATGTGAAGAGCTGGAAGCCCAACTGAAAGTGAAGAGAAACGAA
AATGCTGAGTTGTTGAAAGAACTGGAGCAGAAAAACGCGATGATCACAGTGCTGGAGAACACCATCAAGGAGCGA
GAGAAGAAGTACCTGGAGGAGCTGAAGGCCAAGAGTCACAAGCTGACCCTGCTGTCTAGCGAGCTGGAGCAGCGG
GCCAGCACCATCGCTACCTGACCTCCAGCTGCACGCCGCAAGAAGAAGCTCATGAGCTCCAGCGGGACCTCA
GATGCCAGCCCGTCAGGGAGCCCCGTGCTGGCCAGCTACAAGCCAGCGCCCCCAAAGACAAGCTACCCGAAACG
CCTCGCCGCCGCATGAAAAAGAGCCTCTCAGCCCCCTTGACCCCGGAATTTGAAGAGGTCTACAGATTGGGGCA
GAGAGCAGGAACTCCTTTTTCGCGGAACCAAGTGATGCTATGCCCGACCCACCCCATTTCTGCTGGCTAGGGAG
TCCGCCGAGGTCCACCTCATCAAAGAGAGGCCCTCGTCATCCCCCCCATCGCTCCGACCGAAGCGGCGAGCAG
CACAGCCCGGCCCGCGAAAAGCCGCACAAGGCCACGTCGGGGTGCCACATCGGATCCACCACGCCACCCCGCCG
CAGGCCCAGCCCGAGGTGAAGACCCTGGCGGTGACCCAGGTGAACGGAGGCAAGGTGGTGAGGAAGCACTCAGGG
ACGGACAGAACTGTG**TGA**AGCCCGCCGTGCCCCACCCCGCGCTGTCCATGCACTGTGAGCACCCTGGGAAATCT
CAGCCACACCTTTTCTGTTTAATCCCATGCATGCCAAACACTTTTACACCTACCGACCCATTCTCCTTCTGCTT
CTCTTGCCCTCTTCTTACACCAAATATGATCGTGTCCCTGCCGCAGAATATGTATTTCTAATTGCTGTGGCC
AAGCGCCTGTGTGCCGAATCGCTTGCTTCTGATCCCGCTCCGTGTAACCTAAGTGCGCTGCAGGCAAAGCCCAGG
CCACGGCTGCGTCACTACTGATGTTACGATGCCACACAGTCACACACCTAATTCATTCTCAAGTCGGAGCAACA
CATACCAACCTTGACCTTATCCTCAAGCTCCAGGGCAGCCTGGCCGAGCAGCCCCTGCTCCCTCCTGGAGACCCCT
TGTCACCTCCCGAGCTCCTCCTGGAGACCCCTGTACCTCCTGACCAACCTTTCCAGGGCGGCACCGATCACCG
AGCAGCCGTGCGTGTATCTCAAGGAATAAATAAGATGACGCTACTCCTCATAGCACCACAACCTGAATGTGTGT
TCATATTTTTTTGTTAGTTTTATCCAAATGTTTAAGATCCCAACAACTTTATTTTCTAAACCTGCCAAAAAAA
AAAAAAAAAAAAAA

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FIGURE 2079

MTSPHFSSYDEGPLDVSMAATNLENQLHSAQKNLLFLQREHASTLKGLHSEIRRLQQHCTDLTYELTVKSSEQTG
DGTSKSSELKKRCEELEAQLKVKENENAELLKELEQKNAMITVLENTIKEREKKYLEELKAKSHKLTLLSSELEQ
RASTIAYLTSQLHAAKKKLMSSSGTSDASPSGSPVLASYKPAPPKDKLPETPRRRMKKSLSAPLHPEFEEVYRFG
AESRKLLLREPVDAMPDPTPFLLARESAEVHLIKERPLVIPPIASDRSGEQHSPAREKPKAHVGVVAHRIHHATP
PQAQPEVKTLAVDQVNGGKVVRKHSGTDRTV

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FIGURE 2080

GGGGCGACGTTT TAGCGACTATTGCGCCTGCGCCAGCGCCGGCTGCGAGACTGGGGCCGTGGCTGCTGGTCCCCGGG
TGATGCTAGGCGGGCTCCCTGGGCTCCAGGCTGTTGCGGGGTGTAGGTGGGAGTCACGGACGGTTCGGGGCCCCGAG
GTGTCCGCGAAGGTGGCGCAGCCATGGCGGCAGGGGAGAGCATGGCTCAGCGGATGGTCTGGGTGGACCTGGAGA
TGACAGGATTGGACATTGAGAAGGACCAGATTATTGAGATGGCCTGTCTGATAACTGACTCTGATCTCAACATTT
TGGCTGAAGGTCCTAACCTGATTATAAAACAACCAGATGAGTTGCTGGACAGCATGTCAGATTGGTGTAAGGAGC
ATCACGGGAGGTCTGGCCTTACCAAGGCAGTGAAGGAGAGTACAATTACATTGCAGCAGGCAGAGTATGAATTC
TGTCCTTTGTACGACAGCAGACTCCTCCAGGGCTCTGTCCACTTGCAGGAAATTCAGTTCATGAAGATAAGAAGT
TTCTTGACAAATACATGCCCCAGTTCATGAAACATCTTCATTATAGAATAATTGATGTGAGCACTGTTAAAGAAC
TGTGCAGACGCTGGTATCCAGAAGAATATGAATTTGCACCAAAGAAGGCTGCTTCTCATAGGGCACTTGATGACA
TTAGTGAAAGCATCAAAGAGCTTCAGTTTTACCGAAATAACATCTTCAAGAAAAAATAGATGAAAAGAAGAGGA
AAATTATAGAAAATGGGGAAAATGAGAAGACCGTGAGTTGATGCCAGTTATCATGCTGCCACTACATCGTTATCT
GGAGGCAACTTCTGGTGGTTTTTTTTTCTCACGCTGATGGCTTGGCAGAGCACCTTCGGTTAACTTGCATCTCCA
GATTGATTACTCAAGCAGACAGCACACGAAATACTATTTTTCTCCTAATATGCTGTTTCCATTATGACACAGCAG
CTCCTTTGTAAGTACCAGGTCATGTCCATCCCTTGGTACATATATGCATTTGCTTTTAAACCATTTCTTTTGTTT
AAATAAATAAATAAGTAAATAAAGCTAGTTCTATTGAAATGCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2081

MLGGSLSRLLRGVGGSHGRFGARGVREGGAAMAAGESMAQRMVWVDLEMTGLDIEKDQIIEMACLITDSDLNIL
AEGPNLI IKQPDELLDSMSDWCKEHHGRSGLTKAVKESTITLQQA EYEFLSFVRQQTPFGLCPLAGNSVHEDKKF
LDK YMPQFMKHLHYRIIDVSTVKELCRRWYPEEYEFAPKKAASHRALDDISESIKELQFYRNNIFKKKIDEKKRK
IIENGENEKTVS

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FIGURE 2082

ATTTCTTAATCTATTTAATCACACCCTGACCTGCTTTGAACATAACCTTCAGGGGA**ATG**CACATAGTCTTTTAC
AGACAAAAAATTATTCAGAAGTATGCAAAAACTGCCGTGAAGCATACAAACTCTGAGTAGTCTGTACAGTGAA
ATGCAAAAAATGAATGAACCTTGAGAATAAGGCTGAACCTGGAACACATTTATGCATTGATGTGGAAAGATGCAATG
AACATCACTCGAAACTATGGAGTCGAACTTTCAACTGTTTCAGTCCCTTGCACTGACACAGTGCCCTGTAATTGCT
GTTTCTGTGTTCAATCTCTTTCTACCTGTTGCTTCTACCTTAGTAGCTTTCTTCACTCAGAGCAAAAAGAAACGC
AAACTCATTCTGCCCAAACGTCTCAAGTCCAGTACCAGTTTTGCAAATATTCAGGAAAATTCAAAC**TGAG**ACCTA
CAAAATGGAGAATTGACATATCACGTGAATGAATGGTGGAAAGACACAACCTTGGTTTCAGAAAGAAGATAAACTGT
GATTGACAAGTCAAGCTCTTAAGAAATACAAGGACTTCAGATCCATTTTTAAATAAGAATTTTCGATTTTTCTT
TCCTTTTCCACTTCTTTCTAACAGATTTGGATATTTTTAATTTCCAGGCATAGCAATGTTATCTATTTTAATGTG
TATTTGTGACAATAACAGAACATGCAAGAACAATCATTATTTTATTTTATAGGCATTTGATTACTATTCTAGACT
TCTGGTATCTTCTTACTAACAATAATATCTCAAGTAGAAAAGTTTTTGAAAATAACATTTAAAAATTAATCAGT
TACAGTAAAGACTTTGAAAAGAAATGTACTTGTAGGAAGTAGCTTAATTACCCCCCATTGCAGTATTATTGTT
ATATATATAGTTAATATGTTGTACATCACAATAATATATAATTCAGTCTCTAGTTTCCCTAGAGTCATTTTTGAA
ACCACTGATTGCAAACCTCCCTGACAATTTTTAAAAGTAGTAAGCCACATTACATTTATCTTTGTAAAAAGATTT
ATGGTAACTGGTTTCTTACTTGACTTTTATAAATAGTATTTTACATCTTATTTTTGCCTTTATTTTCATAAGTAAT
TTAAAAATCACTGGATTGCTTTATTATATTCAGGGCAATATGGATTATTTTTTATACCAAGGATTTGCATCGTGAA
TTACATTAAGTTATTTGGCAATTTATAATTTATTACTACTTTAAATCAAATGTAGCATTATCACACTGTATTTAA
ATTGTCATTTTTTAAAGGAATATTTTCTTCTTAAGATATATAGAGGATTTTGAGAGAAGAGAGACAGGAGGGGTAA
AACCAGCTTAAGGTTTCAGCGAGCAGAAAGGGACCTGAGAGGATGCTCACTGTAAGACTGTTGGACAGTGGTGTGT
ATTGAGGGGATGAATCGGAACGATAGTCTCATGCAGAAAATAGTGAGATTAAGATCATCCTTATTGTTTCTAAAT
TATTTCAATCAGATGAAAGTGATACGATTGAAATGAAATCACATAGTTCGTGCTCAGAAATTCTATTTTGGTATG
TTTGTATTAGCCTTTAGAAAAAACACTCCGTTTCAGAATTGTTTCACAGTTTTATTTCTTAGGTTTTTAGAGTTCA
GGATTTCAATTTATTAATTTCTTCTTGCTTTTTTGGTGGAAATAGGCTTTGTTGTAAACATTAAGAATATAAAATC
TCCTCTATATAGAAACAAGAATTTTGTAAAAAGAGAATTTGAATCCCTTCCTATACTATAAAATGCTCTATAGG
GAGACAAAAGTGTCTTTTTTCTTTTATGTTTACTGTTTATGTGGAGTGAAATATAAGGCTCTTGGATGTATAAC
ATACTCAAAAAGCTGTTACACTTTCTCTGATCTGCTGTGATCCACTGAAAATGTGCTGGGGTTTGTCTGCTGTCA
CTGTTTATGCTGCTGGAACCTTAGCACTGTCTTGATTGGAAGCATATGATTGAGAGCCATTTGAAGCAATCTTCAT
TAATGCAGATAAAAACAAGTTTACATGTGCAGAGTTAGAAAATGACATGTTCAATTCGTAAAGTGGTGACTTTTTG
AGCACCTTTCAGTATTATGTATTTGTAAAAACCATTGTTTGGATATAAAGCTAATAAGCACTTTAAAAAGGAA
AAGGCAGCCTTTACTATTTTTTCTGGTTGAGTCATTGCTCTTTAGACCTAGCATCAGCAATAGATTTCAAAGATA
AGTATTAAGCGCTACCCTAAAGTGTGTAAGTTTTTCATTTTGTGCATATTGAAAATGATTTGCATAGTACTGAAT
GTTGACACACAGCTTATATGTATTTACAAGAATATCTTAAAGTGTTTTTTTGACACATTAAATAAAGGAAATAA
GGAAATTGTAA

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FIGURE 2083

MHIVFYRQKI IQKYAKNCREAYKTLSSLYSEMQKMNELENKAEPGTHLCIDVEDAMNITRKLWSRTFNCSVPCSD
TVPVIAVSVFILFLPVVFYLSFLHSEQKKRKLILPKRLKSSTSFANIQENS

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FIGURE 2084

GCTGGCGGGGCCCCGGACAGAAG**ATGG**TGCAGAAGAAACCAGCCGAACCTTCAGGGTTTCCACCGTTCGTTCAAGGG
GCAGAACCCCTTCGAGCTGGCCTTCTCCCTAGACCAGCCCGACCACGGAGACTCTGACTTTGGCCTGCAGTGCTC
AGCCCGCCCTGACATGCCCGCCAGCCAGCCCAATTGACATCCCGGACGCCAAGAAGAGGGGCAAGAAGAAGAGCG
CGGCCGGGCCACCGACAGCTTCTCGGGCAGGTTTGAAGACGTCTACCAGCTGCAGGAAGATGTGCTGGGGGAGGG
CGCTCATGCCCGAGTGCAGACCTGCATCAACCTGATCACCAGCCAGGAGTACGCCGTCAAGATCATTGAGAAGCA
GCCAGGCCACATTTCGGAGCAGGGTTTTTCAGGGAGGTGGAGATGCTGTACCAGTGCCAGGGACACAGGAACGTCCT
AGAGCTGATTGAGTTCTTCGAGGAGGAGGACCGCTTCTACCTGGTGTGTTGAGAAGATGCGGGGAGGCTCCATCCT
GAGCCACATCCACAAGCGCCGGCACTTCAACGAGCTGGAGGCCAGCGTGGTGGTGCAGGACGTGGCCAGCGCCTT
GGACTTTCTGCATAACAAAGGCATCGCCACAGGGACCTAAAGCCGGAAAACATCCTCTGTGAGCACCCCAACCA
GGTCTCCCCCGTGAAGATCTGTGACTTCGACCTGGGCAGCGGCATCAAACCTCAACGGGGACTGCTCCCCCTATCTC
CACCCCGGAGCTGCTCACTCCGTGCGGCTCGGCGGAGTACATGGCCCCGGAGTTAGTGGAGGCCTTCAGCGAGGA
GGCTAGCATCTACGACAAGCGCTGCGACCTGTGGAGCCTGGGCGTCATCTTGTATATCCTACTCAGCGGCTACCC
GCCCTTCGTGGGCCGCTGTGGCAGCGACTGCGGCTGGGACCGCGCGAGGCCTGCCCTGCCTGCCAGAACATGCT
GTTTGAGAGCATCCAGGAGGGCAAGTACGAGTTCCCCGACAAGGACTGGGCCCACATCTCCTGCGCTGCCAAAGA
CCTCATCTCCAAGCTGCTGGTCCGTGACGCCAAGCAGAGGCTGAGTGCCGCCAAGTCCTGCAACACCCCTGGGT
TCAGGGGTGCGCCCCGGAGAACACCTTGCCCACTCCCATGGTCCTGCAGAGGTGGGACAGTCACTTCCTCCTCCC
TCCCCACCCCTGTCGCATCCACGTGCGACCTGGAGGACTGGTCAGAACCGTTACTGTGAATGAG**TGAA**GATCCTG
GAGGACCCCTGGCCCCAGGCCAGCTCCCATCGCTGGGGGACGGTGAACGGCCATGTGTAAATGTTACGATGTTTTT
AAAAGACAAAAAAAAAAAAAAAAACCTCAAAAGTTTTTTTAAAGTGGGGGAAAAACATCCAAGCACTTTAATTCCA
ATGTACCAGGTGAAGTACGGAGCTCAGAAGTTTTCTTTACACCAACTGTCAATGCCGGAATTTTGTATTCTGT
TTTGTAAGATTTAATAAAAAGTCAAAAAACTTGCAAAAAAAAAAAAAA

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FIGURE 2085

MVQKKPAELQGFHRSFKGQNPFEAFSLDQPDHGDSDFGLQCSARPDMPASQPIDIPDAKKRGKKKKRGRATDSF
SGRFEDVYQLQEDVLGEGAHARVQTCINLITSQEYAVKIIEKQPGHIRSRVFREVEMLYQCQGHRNVLELIEFFE
EEDRFYLVFEKMRGGSILSHIHKRRHFNELEASVVVQDVASALDFLHNKGIAHRDLKPENILCEHPNQVSPVKIC
DFDLGSGIKLNGDCSPISTPELLTPCGSAEYMAPELVEAFSEEASIYDKRCDLWSLGVILYILLSGYPFFVGRCG
SDCGWDRGEACPACQNMLFESIQEGKYEFDPKDWAHISCAAKDLISKLLVRDAKQRLSAAQVLQHPWVQGCAPEN
TLPTPMVLQRWDSHFLLPPHPCRIVRPGGLVRTVTVNE

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FIGURE 2086

CTCTCCGAGAACTCTTGTCTAGCTCACGGCAGCAAGGACGGACTCGTTGTGAAGGCGCCACACACTTTTATGACC
ACCTCTTTCCCAGATTATTCGTTTTGATGAAGCTAAAAATTTTAATCTAAAAAGAAATGCACCTCATGGAGAATTC
TTGTGAAGAACTGTGCTTCATCTGTGGATTTCTACACCCCTTGATCATTGCAAACCTGTAATTATTTTCGTAAAGG
CGGGATGGTGCCGCTGTGCCAGGTTGAAGTATTGTATTTTGCAAAAAGTGCTGAAATAACAGGAGTTTCGTTTCAGA
GACCATTTCTGTGCCTCAAGAAATAAAAGCGTTGCAGCTGTGGAAGGAGATAGAACTCGACATCCTGGATTGGC
TGATGTTAGAAATCAGATAATATTTGCTGTTCGTCAAGAATATGTCGAGCTTGGAGATCAGCTCCTCGTGCTTCA
GCCTGGAGACGAAATTGCCGTTATCCCCCCCATTAGTGGAGGATAGTGCTTTTGAGCCATCTAGGAAAGATATGG
ATGAAGTTGAAGAGAAATCTAAAGATGTTATAAACTTTACTGCCGAGAACTTTTCAGTAGATGAAGTCTCACAGT
TGGTGATTTCTCCGCTCTGTGGTGCAATATCCCTATTTGTAGGGACTACAAGAAATAACTTTGAAGGGAAAAAAG
TCATTAGCTTAGAATATGAAGCATATCTACCCATGGCGGAAAATGAAGTCAGAAAGATTTGTAGTGACATTAGGC
AGAAATGGCCAGTCAAACACATAGCAGTGTTCCATAGACTTGGCTTGGTTCCAGTGTCAGAAGCAAGCATAATCA
TTGCTGTGTCTCAGCCACAGAGCTGCATCTCTTGAAGCTGTGAGCTATGCCATTGATACTTTAAAAGCCAAGG
TGCCCATATGGAAAAAGGAAATATACGAAGAGTCATCAACTTGGAAGGAAACAAAGAGTGCTTTTGGGCATCCA
ACAGTTAACTCACTTATGTTTTTTAGAGCATGCAATCTTAACTTTGTTAACTATTATTATTGATCACATTTTGATT
TTTTTCTCTCCACATCAGGATAGTTTACTGAAGCACAACTCTTTATACTAGTGGGACAAAAGGGAGAAAAAGGAA
GCAAGATAAATGGGTATGTAGGATGAAGGGTTATTTAAAATGGAATAAAGATAGAAGGAGGACTGTAGGAAGAA
ATGGAATAATTTAAATGTGAGGAAAGATATCTGTGGTAGACATGTCCTTCCATGACTAATTTCTAATTGTAATC
AACACACATTGAGGTATGGGCCCTCCTCAGTGACTTTAACTAGCTCAGAAACGTACTCCCCACCAACCCACCT
CACCGCCCCCATCCCGTTCTGGGAGAGCATTGTTATTAAGGATGCATGACAGGAATGTTGGCAGAACTGGAAA
GTATTAAAAAAGCATTATCAGACAGTCTTGATATTATACATTTTCAGAAATATATTAAAAATAATAAACTAAAC
CCATGATTTCAAAGTTTAAAAA

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FIGURE 2087

MSSLEISSSCFSLETKLPLSPPLVEDSAFEPSPRKDMDEVEEKSKDVINFTAEKLSVDEVSQLVISPLCGAISLFV
GTTRNNFEGKKVISLEYEAYLPMAENEVRKICSDIRQKWPVKHIAVFHRLGLVPVSEASIIIIVSSAHRAASLEA
VSYAIDTLKAKVPIWKKEIYEESSTWKGNECFWASNS

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FIGURE 2088

CCAGGCGCTGCGCGGCTGCTCTGGCGTCCAGTCCTACCCGCAACCCGCCGCGACGTTACTGCTCCTCTGCTGCCT
TCGTTTCTGGTCCTCGGCCGTCTCGCCGCCCGCCAGAGGAGTCCCCGCGCCCGCCAAGAAGCCGCTTTCCGCT
GGCCCGCAGCCGCCGCGACTTCGGCACAGTTTCTCCCTCTGGCTAGTCTCCCAAACGGCCGCTCCTCGCCCGCGG
GAAGACCAGGCTGCGACCGCGAACGCCCCGATCCTCTCCAGGAGCCGCGAGCGAGCGCCCGCGGCCACGCCCCGCG
ACACACCCCGCGCGCTCTCGGCCAGCGCGCCTGCCTTCGCCGCCCGCGTCTGCTCCTCGCCCGCTGCACGACGAC
GCGACGCCCTGCTGCAGGCGGCGGACCCGACCGACCCAGACCCAGACGCAAGATGGCGACGGCCGCGTGA CTG
CCTCAGCGTCCCCGAGCTCGGCTCCGAGTGACCTACGGACTGACTGTGGGGGCAGAGAAGGGCGAGATCAGGAC
TCTGTCTTTGTTAATCGTGA CTGTCATGAAGGTCGCTCCCTCGGGCCTACTTGGTGGGAGTGTCTGGTATTGTTT
TAAGGCCAGGAGCACGGTGAGCCACAGTCTGTTGGTAGAATTTGGCGTCTTGATAGTTGAGAAAATGCGGATGAC
ACTGTTGGAAGACTGGTGCCGGGGGATGGATGTGAACCTCCAGAGAXCTCTGTTAGTCTGGGGCATCC CAGTGAA
CTGTGATGAGGCTGAAATCGAAGAGACCTCCAGGCTGCGATGCCCCAGGTCTCCTACCGAATGCTTGGGAGAAT
GTTCTGGAGGGAAGAAAATGCGAAAGCAGCCTTATTAGAGCTCACTGGCGCTGTAGATTACGCCGCGATCCCCAG
GGAGATGCCGGGCAAAGGAGGGGTCTGGAAAGTGTTATTTAAGCCCCCAACTTCTGATGCTGAATTTTTAGAAAAG
ATTGCACCTCTTCCTAGCTAGAGAGGGGTGGACCGTGCAAGATGTTGCCCGTGTCTTGGGTTTCAGAACCTTAC
TCCGACCCCGGGCCCAGAGATGCCAGCAGAGATGCTAAACTATATTTTGGATAATGTTATTACAGCTCTTGTGTA
GTCCATATGGTACAAGAGGCTGACACTTTTCTCGGGGAGGGACATCCCAGGGCCTGGAGAGGAAACCTTTGATCC
CTGGCTGGAGCACACTAATGAGGTCCTAGAGGAGTGGCAGGTGTCCGATGTAGAAAAGAGGCGGCGGTTGATGGA
GAGTCTTAGAGGCCCCGCGCTGATGTTATTCGCATCCTTAAGTCCAACAACCCGCGATAACCACTGCCGAATG
CCTGAAGGCGCTTGAGCAGGTGTTTGGGAGCGTTGAGAGCTCTAGGGATGCCAGATCAAATTTCTGAACACTTA
TCAGAACCCGGGAGAAAAATTGTCTGCTTATGTCATTCGTCTGGAGCCTCTGCTACAGAAGGTGGTAGAGAAGGG
GGCCATTGATAAAGATAATGTGAACCAGGCCCGCTAGAGCAGGTCAATTGCCGGGGCCAACCACAGCGGGGCCAT
CCGAAGGCAGCTGTGGCTTACCGGGGCTGGGGAAGGGCCAGCCCCAAACCTCTTTCAGTTGCTGGTGCAGATCCG
TGAGGAGGAAGCCAAGGAGGAGGAGGAGGAGGCTGAGGCCACCCTTCTGCAGTTAGGCCTGGAAGGGCACTTCTG
AGTGCCAGGAAAGGCAGCTTTAGTGACAGCTAGATCACAGCTACTTTTCTTGTCCCTGTGGGGTCTTACAGATG
TGTCTCTGAGTAGTAAAGGCTTAGCCTTGTCTGTTTGTGTTTTTGGAGGGGAAGGTTAGTCAGGCCTGAGT
ATT CATGTAACATTCTAAAATTGTGCCAGCGAGCACCGTGAACGACTGCAATGCAAGCGGGTCTTGCTGGCTAAA
ATGCCCAGGTAAAGGGTTGGTTGGACACAGCGCTTAGTGCACGCTGTCATCATGGACATCATAATCAGTTGTGAA
AAACACGCGAACCTATGACACTTCTTATTCCACACTGAATGTGAAATTGCATGTT CAGATGTTT XACTACGAGGC
CTGGCTCACAGGAAGTGTT CAGTAAAAGTATGCACTGTTAGATTACTGATAACGCGGATAGATTTTTGTTTACCA
TAAATTGTTCCAGATTTATATTAATGGAAGGAAGTGTGCATTTATTAGCTATTACTCAACTTTACAATGCAAACA
TCTTATTTCTCATCTTTAAACATGTCGACCAGTTTAATTGAAAAGTATTCTGAGACTGCAAAATGGGGTGTAAA
AAATACTGCAGTTACGGAGCTGTGTAAACCAGTTTCTCATTCATAAGATACAGATGTAAATTGCATGGAGAGGT
TGATATGCACCTGTACAGTAATTCACCTCCCCATTTCACTTCTTTGTCAGAGAATAGTTCTTGTTTCATACTGAGT
GTTCTAAATTTGAAGTTATATATACAAATTAAAATATTTTAAAAAAAAAAAAAAG

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FIGURE 2089

MAMTLLLEDWCRGMDVNSQRXLLVWGIPVNCDEAEIEETLQAAMPQVSYRMLGRMFWREENAKAALLELTGAVDYA
AIPREMPGKGGVWKVLFKPPTSDAEFLERLHLFLAREGWTVQDVARVLGFQNPTPTPGPEMPAEMLNYYILDNVIQ
PLVESIWYKRLTLFSGRDIPGPGEETFDPWLEHTNEVLEEWQVSDVEKRRRLMESLRGPAADVIRILKSNNPAIT
TAECLKALEQVFGSVESRDAQIKFLNTYQNPGEKLSAYVIRLEPLLQKVVEKGAIDKDNVNQARLEQVIAGANH
SGAIRRQLWLTGAGEGPAPNLFQLLVQIREEEAKEEEEEAEATLLQLGLEGHF

2367/2825
FIGURE 2090

CTCCCAAGATGTCGTTCCCAAAGTATAAGCCGTCGAGCCTGCGCACTCTGCCTGAGACCCTCGACCCAGCCGAAT
ACAACATATCTCCGGAAACCCGGCGGGCGCAAGCCGAGCGGTTGGCCATAAGAGCCCAGCTGAAACGAGAGTACC
TGCTTCAGTACAACGATCCCAACCGCCGAGGGCTCATCGAAAAATCCTGCCTTGCTTCGTTGGGCCTATGCAAGAA
CAATAAATGTCTATCCTAATTTAGACCCACTCCTAAAACTCACTCATGGGAGCTCTGTGTGGATTTGGGCCCC
TCATCTTCATTTATTATATTATCAAACTGAGAGGGATAGGAAAGAAAACTTATCCAGGAAGGAAAAATTGGATC
GAACATTTACCTCTCATATTAAGTCTGGCAATGATGACTATATGTATTCCTGCCTAAATAAATCATCTATTAAT
CATTAAAAAAAAAA

2368/2825
FIGURE 2091

MSFPKYKPSSLRTLPE TLDP AEYNISPETRRQAERLAIRAQLKREYLLQYNDPNRRGLIENPALLRWAYARTIN
VYPNFRPTPKNSLMGALCGFGPLIFIYYIIKTERDRKEKLIQEGKLDRTFHLSY

2369/2825
FIGURE 2092

GGCAGAGGCATC**ATG**GAGGGTCCCCGGGGATGGCTGGTGCTCTGTGTGCTGGCCATATCGCTGGCCTCTATGGTG
ACCGAGGACTTGTGCCGAGCACCAGACGGGAAGAAAGGGGAGGCAGGAAGACCTGGCAGACGGGGGCGGCCAGGC
CTCAAGGGGGAGCAAGGGGAGCCGGGGGCCCCCTGGCATCCGGACAGGCATCCAAGGCCTTAAAGGAGACCAGGGG
GAACCTGGGCCCTCTGGAACCCCGGCAAGGTGGGCTACCCAGGGCCCAGCGGCCCCCTCGGGGGCCCGTGGCATC
CCGGGAATTAAAGGCACCAAGGGCAGCCCAGGAAACATCAAGGACCAGCCGAGGCCAGCCTTCTCCGCCATTTCGG
CGGAACCCCCCAATGGGGGGCAACGTGGTTCATCTTCGACACGGTCATCACCAACCAGGAAGAACCGTACCAGAAC
CACTCCGGCCGATTTCGTCTGCACTGTACCCGGCTACTACTACTTCACCTTCCAGGTGCTGTCCCAGTGGGAAATC
TGCCGTGCCATCGTCTCCTCCTCAAGGGGGCCAGGTCCGACGCTCCCTGGGCTTCTGTGACACCACCAACAAGGGG
CTCTTCCAGGTGGTGTGTCAGGGGGCATGGTGCTTCAGCTGCAGCAGGGTGACCAGGTCTGGGTTGAAAAAGACCCC
AAAAAGGGTCACATTTACCAGGGCTCTGAGGCCGACAGCGTCTTCAGCGGCTTCCTCATCTTCCCATCTGCC**TGA**

GCCAGGGAAGGACCCCTCCCCACCCACCTCTCTGGCTTCCATGCTCCGCCTGTAAAATGGGGGCGCTATTGCT
TCAGCTGCTGAAGGGAGGGGGCTGGCTCTGAGAGCCCCAGGACTGGCTGCCCCGTGACACATGCTCTAAGAAGCT
CGTTTCTTAGACCTCTTCCTGGAATAAACATCTGTGTCTGTGTCTGCTGAAAAAAAAAAAAAAAAAAAA

2370/2825
FIGURE 2093

MEGPRGWLVLCLVLAISLASMVTEDLCRAPDGKKGEAGRPGRGRPGGLKGEQGEPEGAPGIRTGIQGLKGDQGEPPG
SGNPGKVGYPGPSPGLGARGIPGIKGTGSPGNIKDQPRPAFSAIRRNPPMGGNVVIFDTVITNQEEPYNHSGR
FVCTVPGYYYFTFQVLSQWEICLSIVSSSRGQVRRSLGFCDTTNKGLFQVVSGGMVLQLQQGDQVWVEKDPKKGH
IYQGSEADSVFSGFLIFPSA

2371/2825
FIGURE 2094

GGCTGCGAGAAGACGACAGAAGGGGGAAGGGGCTGATGCGAACTGGGGCCACGGTAGCCATCGCGCTTTGCAGTT
CGGTCTCCTGGTGTACGGCCAACGCCAAGTAGGGGATTGCGTTCCCTCCAGTCGCAGACCCTATCAGATTTGGAT
ATGTCCCTTCATATTTGATTGGATTTACAGTGGTTTCAGCAGTGTGCTACAGTTTTTAGGATTATATAAGAAAAC
GGTAAACTGGTATTTCTTGGATTGGATAATGCAGGAAAAACAACATTGCTACACATGCTAAAAGATGACAGACTT
GGACAACATGTCCCAACATTACATCCCACTTCCGAAGAACTGACCATTGCTGGCATGACGTTTACAACTTTGGAT
CTGGGTGGACATGTTCAAGCTCGAAGAGTGTGGAAAACTACCTTCCTGCTATCAATGGCATTGTATTTCTGGTG
GATTGTGCAGACCACGAAAGGCTGTTAGAGTCAAAAGAAGAAGCTTGATTCACTAATGACAGATGAAACCAATTGCT
AATGTGCCTATACTGATTCTTGGGAATAAGATCGACAGACCTGAAGCCATCAGTGAAGAGAGGTTGCGAGAGATG
TTTGGTTTATATGGTCAGACAACAGGAAAGGGGAGTATATCTCTGAAAGAACTGAATGCCCGACCCCTTAGAAGTT
TTCATGTGTAGTGTGCTCAAAAGACAAGGTTACGGAGAAGGCTTCCGCTGGATGGCACAGTACATTGATTAACCAC
AAACTCACATTGGTTCCAGGTCTCAACGTTCAAGGCTTACTCAGAGATTTGATTGCTCAACATGCATAACTTGAAT
TCAATAGACTTTTGTGTTATAAAACAGATGTTTTTTAGATTATTAATATTAAATCAACTTAATTGAATGAGA
ATTGAAAACCTGATTCAAGTAAGTTTGGAGTATCACAATGTTAGCTTTCTAATTCCATAAAAGTACTTGGTTTTTAC
AGTTTATAATCTGACATCACCCAGCGCCATTTGTAAAGAGCAACTTCCAGCAGTACATTTGAAGCACTTTTTTA
ACAACATGAAACTATAAACCATATTTAAAAGCTCATCATGTTAAATTTTTTATGTACTTTTCTGGAACCTAGTTTT
TAAATTTTAGATTATATGTCCACCTATCTTAAGTGTACAGTTAATAATTAGCTTATTCAATGATTGCATGATGCC
TTACAGTTTTCAATAACTTTTTTTCTTATGCAAACGTCATGCAATAAAACAACTCTAATGTTTGGCAAAAAAAA
AAAAA

2372/2825
FIGURE 2095

MSFIFDWIYSGFSSVLQFLGLYKKTGKLVFLGLDNAGKTTLLHMLKDDRLGQHVPTLHPTSEELTIAGMTFTTFD
LGGHVQARRVWKNYLPAINGIVFLVDCADHERLLESKEELDSLMTDETIANVPILILGNKIDRPEAISEERLREM
FGLYGQTTGKGSISLKELNARPLEVFMCSVLKRQGYGEGFRWMAQYID

2373/2825
FIGURE 2096

CACGGGGCTGCGTGGAAGAGCGCCGAGCGGTGGCGTCTGTCGCCCCCTCCTCGTCGGGAAGAAATCGTTTGGT
CTCCTGCCGTGCCCCGGCCGGTGCTGCTGCTGCTGCTGCTGCCCCGCGCGGGTTGTGGATGTTGTCGGCTCCGTGTT
GTGATGACAGGAGAATGTGTGTGTGTCCCAGGCCCCAGACGAATTGGAATCCCAGTCAGAAGTTCCAGCCTGCCAC
TGTTCTCTGATGCCATGCCAGCACCAACTCAACTGTTTTTTCCTCTCATCCGTAAGTGTGAAGTGCAGGATCT
ATGGCACTGCATGTTACTGCCACCACAAACATCTCTGTTGTTCCCTCATCGTACATTCCCTCAGAGTCGACTGAGAT
ACACACCTCATCCAGCATATGCTACCTTTTGCAGGCCAAAGGAGAAGTGGTGGCAGTACACCCAAGGAAGGAGAT
ATGCTTCCACACCACAGAAATTTTACCTCACACCTCCACAAGTCAATAGCATCCTTAAAGCTAATGAATACAGTT
TCAAAGTGCCAGAATTTGACGGCAAAATGTCAGTTCTATCCTTGATTGACAGCAATCAAGCTGCCTGCAAATG
CACCCATTGAGGACCGGAGAAGTGCAGCAACCTGCTTGCAGACCAGAGGGATGCTTTTGGGGGTTTTTGATGGCC
ATGCAGGTTGTGCTTGGTCCCAGGCAGTCAGTGAAAGACTCTTTTATTATATTGCTGGCTCTTTGGTACCCCATG
AGACTTTGCTAGAGATTGAAAATGCAGTGGAGAGCGGCCGGGCAGTGTACCCATTCTCCAGTGGCACAAGCACC
CCAATGATTACTTTAGTAAGGAGGCATCCAAATTGTACTTTAACAGCTTGAGGACTTACTGGCAAGAGCTTATAG
ACCTCAACACTGGTGAGTCGACTGATATTGATGTTAAGGAGGCTCTAATTAATGCCTTCAAGAGGCTTGATAATG
ACATCTCCTTGAGGGCGCAAGTTGGTGATCCTAATTCTTTTCTCAACTACCTGGTGCTTCGAGTGGCATTCTCTG
GAGCCACTGCTTGTGTGGCCCATGTGGATGGTGTGACCTTCATGTGGCCAATACTGGCGATAGCAGAGCCATGC
TGGGTGTGCAGGAAGAGGACGGCTCATGGTCAGCAGTCACGCTGTCTAATGACCACAATGCTCAAAATGAAAAGAG
AACTAGAACGGCTGAAATTGGAACATCCAAAGAGTGAGGCCAAGAGTGTGCGTGAACAGGATCGGCTGCTTGGCT
TGCTGATGCCATTTAGGGCATTGAGAGATGTAAAGTTCAAAATGGAGCATTGACCTTCAAAAGAGAGTGATAGAAT
CTGGCCAGACCAGTTGAATGACAATGAATATACCAAGTTTATTCCTCCTAATTATCACACACCTCCTTATCTCA
CTGCTGAGCCAGAGGTAAGTTACCACCGATTAAGGCCACAGGATAAGTTTCTGGTGTGGCTACTGATGGGTGTG
GGGAGACTATGCATAGGCAGGATGTGGTTAGGATTGTGGGTGAGTACCTAAGTGGCATGCATCACCAACAGCCAA
TAGCTGTTGGTGGCTACAAGGTGACTCTGGGACAGATGCATGGCCTTTTAAACAGAAAGGAGAACCAAAATGTCTT
CGGTATTTGAGGATCAGAACGCAGCAACCCATCTCATTGCCACGCTGTGGGCAACAACGAGTTTGGGACTGTTG
ATCATGAGCGCCTCTCTAAATGCTTAGTCTTCTGAAGAGCTTGCTCGAATGTACAGAGATGACATTACAATCA
TTGTAGTTCAAGTTCAATTCTCATGTTGTAGGGGCGTATCAAAACCAAGAAAAGTGAGTGGCTCTTTACTGGCAAT
TCTCAAATGATTACATTTAAAGGGCAGATTTTTTAAAGATCTACTATAATAACATTTTCAGGTGGCATTCTAA
GCATTTACCCTTTTGATACTCTAGGGGCGCTCCAAATTGACTTTGCAGCAGGGTGGCAGGGCAGAAGAGTCTGGT
CCTGCCTAGCTCAGATTTTCATGGCACCTGCACCTGAGGCAAGCACTTCTTTATCACAGGTGTCTTGAAACATTAG
CTTCTTTTACCAACCTGAGAAAATTAGGATGACCTGGCAAATAAGATCTTGAATAGCCAAAAGCAAGTATCTTGC
TGTGTGTAGTCTCTTGGTTAAAGTGAAGAACAGTACTGTTTACACCTTTCTTCACTGAGATTCCAGTGACATGAG
AACATATATTTATTGCATGATTTTCTAGTACACAGTCTATGCATTATTCATATACATTTATTTTAGCCTAAAGTG
GTTTTCAAATCCAGTTCTTCAAGCCATAAATGACCAAGATCCAAGCAATCTGAATTTGTTTTGTGATTATTTGA
CTGGAATGCTTCTTAAGTGAATAACTATACTCCGTTATCCACCCGATTCCTAATGTAATTGAAACATTTTCTA
GTTTGCCACACACTTGGAGACCGTAAGGGTTTTTAGTTTGATCTACTCTTCTATTGAAGTTAAAAA
AAAAA

2374/2825
FIGURE 2097

MLSAPCCDDRRMCVCPGPRRIGIPVRSSSLPLFSDAMPAPTQLFFPLIRNCELSRIYGTACYCHHKHLCCSSSYI
PQSRLRYTPHPAYATFCRPKENWWQYTQGRRYASTPQKFYLTTPQVNSILKANEYSFKVPEFDGKMSVLSLDLTA
IKLPANAPIEDRRSAATCLQTRGMLLGVDGHAGCAWSQAVSERLFYYIAGSLVPHETLLEIENAVESGRALLPI
LQWHKHPNDYFSKEASKLYFNLSLRTYWQELIDLNTGESTDIDVKEALINAFKRLDNDISLEAQVGDPNISFLNYLV
LRVAFSGATACVAHVDGVDLHVANTGDSRAMLGVQEEDGSWSAVTLSNDHNAQNERELERLKLHHPKSEAKSVVK
QDRLLGLLMPFRAFGDVKFKWSIDLQKRVIESGPDQLNDNEYTKFIPPNYHTPPYLTAEPEVITYHRLRPQDKFLV
LATDGLWETMHRQDVVRIVGEYLTGMHHQQPIAVGGYKVTLGQMHGLLTERRTKMSSVFEDQNAATHLIRHAVGN
NEFGTVDHERLSKMLSLPEELARMYRDDITIIVVQFNSHVVGAYQNQEK

2375/2825
FIGURE 2098

GTGGTAGCGGTTATTTCGGCGGCCCCGCGGCGGACCATGGCCCTGGCCCTGGCCCGGCGTCGCTGGGCTTTTCCTCAC
GGCGTCCCCGAGCAGCGTCGCAGAGCGGGCCGACTTCCGGGAAGGAACTGACCAGCGACTGAGCGGCGGGCCGGCG
CGCTTAGCGCCCTGAACATGCGGCAGTCCCTGCGGGCGACCCCCGGGCTCCGGACAGGCGGCGGCGGAGGCGGCGG
CTCGGGAGGGAAGGAGGCGGCGGCGCGGCGGAGGTGGCGGCGGAGACGGCCGGCGCCCGGCGCGGAGCCCTAGG
GAGGCAGTTTCAGCGCGGCCTCGGGCCTCGTTCGAGAAGGATGCTGTCCCGAAAGAAAACCAAAACGAAGTGTCCA
AGCCGGCCGAGGTGCAGGGGAAGTACGTGAAGAAGGAGACGTGCCTCTGCTTCGGAATCTTATGCCTTCATTCA
TCCGGCATGGTCCAACAATTCCAAGACGAAGTATCTGTCTTCAGATTCAAGCCCTAATGCCTTTTCAACTT
CTGGAGATGTAGTTTCAAGAAACCAGAGTTTCTTTAGAACTCCAATTCAAAGAACACCTCATGAAATAATGAGAA
GAGAAAGCAACAGATTATCTGCACCTTCTTATCTTGCCAGAAGTCTAGCAGATGTCCCTAGAGAGTATGGTTCTT
CTCAGTCATTTGTAACGGAAGTTAGTTTTGCTGTTGAAAATGGAGACTCTGGTTCCCGATATTATTATTTCAGACA
ATTTTTTTTGATGGTCAGAGAAAGCGGCCACTTGGAGATCGTGCACATGAAGACTACAGATATTATGAATACAACC
ATGATCTCTTCCAAAGAATGCCACAGAATCAGGGGAGGCATGCTTCAGGTATTGGGAGAGTTGCTGCTACATCTT
TAGGAAATTTGACTAACCATGGTTCTGAAGATTTACCCCTTCTCCTGGCTGGTCTGTGGACTGGACAATGAGAG
GGAGAAAATATTATATAGATCATAACACAAATACAACCTACTGGAGCCATCCTCTTGAGCGAGAAGGACTTCCTC
CTGGATGGGAACGAGTTGAGTCATCCGAATTTGGAACCTATTATGTAGATCACACAAATAAGAAGGCCCAATACA
GGCATCCCTGTGCTCCTAGTGTACCTCGGTATGATCAACCACCTCCTGTCACATACCAGCCACAGCAAACTGAAA
GAAATCAGTCCCTTCTGGTACCTGCAAATCCATATCATACTGCAGAAATTCCTGACTGGCTTCAGGTTTACGCAC
GAGCCCCTGTGAAATATGACCACATTCTGAAGTGGAACTCTTCCAGCTGGCTGACCTGGATACATACCAGGGAA
TGCTAAAGTTGCTCTTCATGAAAGAATTGGAGCAGATTGTTAAATGTATGAAGCATAACAGACAAGCCCTTCTTA
CAGAGTTGGAAAACCGAAAGCAGAGACAGCAGTGGTATGCCCAACAACATGGAAAAAATTTTTGAGCTGATTTTT
TAAAAATTTAAGTTTTGTAAGAGCTTTAAAATATTTTACAGATAAAAAATTGCAAAACAAGTACTCTGGTTAATA
AATGCTGCTTCTTTGTGGAAATTATAAAATTTCTAACTTTACATGTATTTTGTATTAGAAATTTTCTTTTATTG
AATGAGAAAAATTAGTCTATCATTTTAAAGAGCCAATATGGCAAACACTTTCAAATACTGTATATTAGGAACTGT
TTTGGTATTCTTGATGGAAAAAACGCGAGCGGAAATGTCATTATGAACAGATGTTAAATAGGAAATTATTACTTG
TTAACTTCTTACAGCAGTAGTACCTTCTTTAAAAAAGAAATCTGCGGTATTTTTTTAAAAAAGTTTA
CCGCTGTAGTGTGAAATATTGTCTGGAAAGGGATGGTTTAAATATTACCATGATGTAGTTGAAATATAAAATAGG
ATTTGGAACCTTATTGTGATAAAATATTTATATATGATGTATGTTTGTCTCCCCCTCTCCAAAGTAAGGAACCCAGC
TGGGCGTGGTGGCTCACTCCTGTAATCCCAGCATTTTGGGAGGCCGAGGTGGGTGGACCGCTTGAGTCCACGAGT
TTAAGACCAGCCTGGGCAACATGGTGAAGCCCCATCTCTACAAAAAATACAAAAAATTAGCCGGGTATGATGGT
GTGTGCCTCTAGTCCCAGCTACTTGGGAGGCTGAGGTGAGAGATGGCTTGAGCCCAAGAGGCAGAGGTTGCAGG
GTCAAGATCGCACCACTTGCAGTGCAGCCTGAGAGAGAGAGAGCCAGACCTTGTCTCAAAAAATAAAAATAAAA
AAATAAAAAACAAATAAGGAATCCTTTTTAAAGCATGTTGAGAAAGTATTTTTTGGTATGAATGGGTGACGGGCCT
TTAATCTTTTCAGGAATACATATAAGCAGGAATACTTAGCCTGTATTGGGAAGGTGCGTGAAACTCAAAGTTGCT
AACATCATCTTCTTATTTTCAGCCAGTGCTGTTACTGCATTTAGCATGGCTCTGACGAGGCAGTGGAGAGTTCC
TGACAGCATAGCATACTGCCTTCTGACAGACTGGGTTAAGCTACCAAAAATGACAACCAGGGATTCAAAAAAAT
TTTTGGTCATTAAATCGAATGTATATTACTTTTTAATTTTCTAAGTATTTATCACAGGACTTTAACACCATA
TATTTCCCTCCCAGTTTTTCTCCCTTTTGGTTAATAGTTAAACATTTTTTCATAATTAGTGCTGTACATTTGA
TTGCAACAAATTGGTGATACTTCTAAACTATAACTATAAATCTCTAGAATTCTGTGAATTTCAACATTATTTGA
AGTAGTTCTTCAGTTATATTTACATGTGTTGTAAATATGTAAATATACTTTTAGCTTAGGAAGTCTTCCAGAATA
CAAACACTCCCAGTTAGATATCAGTGAGTTTGAATAACTGAAGAAATGTTGACAATGTTAAGTGTGTTGATTTTA
TATAACAAGCTTATTAAATATATTTTTGTGG

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FIGURE 2099

MLSRKKTNEVSKPAEVQGKYVKKETSPLLRLMPSFIRHGPTIPRRTDICLPDSSPNAFSTSGDVVSRNQSFRLR
TFIQRTPEIMRRESNRLSAPSYLARSLADVPREYGSSQSFVTEVSFAVENGDSGSRYYYSDNFFDQQRKRPLGD
RAHEDYRYYEYNHDLFQRMPPQNQGRHASGIGRVAATSLGNLTNHGSEDLPLPPGWSVDWTMRGRKYYIDHNTNTT
HWSHPLEREGLPPEGWERVESSEFGTYYVDHTNKKAQYRHPCAPSVPRYDQPPPVTYQPQQTERNQSLLVPANPYH
TAEIPDWLQVYARAPVKYDHILKWELFQLADLDTYQGMLKLLFMKELEQIVKMYEAYRQALLTELENRKQRQQWY
AQQHGKNF

2377/2825

FIGURE 2100

CGACTTTCCCGATCGCCAGGCAGGAGTTTCTCTCGGTGACTACTATCGCTGTC**ATGT**CTGGTTCGTGGCAAGCAAG
GAGGCAAGGCCCGCGCCAAGGCCAAGTCGCGCTCGTCCCGCGCTGGCCTTCAGTTCCCGGTAGGGCGAGTGCATC
GCTTGCTGCGCAAAGGCAACTACGCGGAGCGAGTGGGGGCGGCGCGCCCGTCTACATGGCTGCGGTCCTCGAGT
ATCTGACCGCCGAGATCCTGGAGCTGGCGGGCAACGCGGCTCGGGACAACAAGAAGACGCGCATCATCCCTCGTC
ACCTCCAGCTGGCCATCCGCAACGACGAGGAAGTGAACAAGCTGCTGGGCAAAGTCACCATCGCCCAGGGCGGCG
TCTTGCTAACATCCAGGCCGTACTGCTCCCTAAGAAGACGGAGAGTCACCACAAGGCAAAGGGCAAG**TGA**GGCT
GACGTCCGGCCCAAGTGGGGCCAGCCCGGCGCGTCTCGAAGGGGCACCTGTGAACTCAAAGGCTCTTTTCAG
AGCCACCCA

2378/2825
FIGURE 2101

MSGRGKQGGKARAKAKSRSSRAGLQFPVGRVHRLLRKGNYAERVGAGAPVYMAAVLEYLTAEIILELAGNAARDNK
KTRIIPRHLQLAIRNDEELNKLLGKVTIAQGGVLPNIQAVLLPKKTESHKAKGK

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FIGURE 2102

GTGTGTTCTGATCTTCAGTGCGGTAGCACATTCTCCATTTAGAAAAGAGTGGTCAGAATAATTGTGGACGGCACA
GTGGCTTTTTTAAACTACAGTCTTTAGGTGTAAGGTTTGGCCGCCGGGAGCAATTTTATGATCAAATATGATGAA
CTCCTAAGTCACTGAGGTGTGATTGGGCCAATGTTGGCATGAGGTTCTTGCTCTACTTCCAGTGTTTTGATTCCA
CTGGGAGAATTTGGCCTAGTGTGTGGCTTTGGATGAATCCGTGTAGAGAGAGGTTGAGCTTGTCTCTGTTACAGATG
CTGTCAGACATAGCGGTAGTAGGCACCTAGGGAGGAAGTGGCCGTTAGTTTTACTGACTTTTTAAGAATGGAG
AATGCACGTGGGTTTTCTGTTGCGGATGATTCATAGTAAGCAAGCGGTTGATGCTGTTAATACCGGCCCCACCCGA
TTGACATTAAGTTTATTCAGCTTTTAAAAAGATGAAGAACTAAGGGGAACAAATTTAAGTTTGTTGCAACTTAGC
CACACATGCTTCCCTGGTACCAGCTGGAATCAGCAGCTCACAGGCATCTTCAGGACACTTCAGTGTATATGACAC
AGTACTTTGTTAGCGTCTGCGTGTGTATGGAAAGTTGACAAAAAATGGCATGAAAAGATCATGATTGGATTTTCT
TTTAAACCTGCCCTTCTGTAAAAAATAGTTTATATATTTTTTAAATTAGTAGGTATGTGTGGCTTCCTTTTTCT
AACATTCCCAGCAAATTTTTGCTGCTAAGACTATCACTGTTAAAGTGAAAATTACAGGGAAAAATGTGATGAATA
TACCGTAACTCAAATGTGATATTTTCTTAAATCACTCTTTTATGCTTTAGGAACTGGGTTGGGTCTCCACTTT
GGATTATTAGTGTTAAAGGGCCTGAGTATACGTGGATTTCAATTGTAAAATTTAACTCCTTGTCTTTTACTTGGGG
CACGGGGCCCTGGGAGGGCTTTCCCTACTTTCCCACTATGTTAACAGGTAATTCTGATTTATGCCTTTAGTTTG
ACTTATTTTTTAACAAAATATTAGAAGTTATGCTTTAAATGTTTTAAATGTTGGACTGAAATTTTCATCTTTGTTT
GAGAATCTATGAAGTGTATCATATACGTGGCCTAAAGCAAGGTGTGTATTTTGTATTCTGAAATTGTTTGCAT
CTGGACAAATACTAAATATCCAGTGGCCTTTTTTTTTTTTTTTTTTAAACCTGTGTATCCATCTCATCTTTTGC
CATTCTAGTAAGCAAAAAAATTTGTTATGCCATCTTCATTATTCGAATTACAGACTGAAAAAATATGGCCAGTT
TTTAAAGAAGTTTAGATTATGTTTTCCATGGAAGGACAAGTCTGACTGTTCAATAGGCTGATTTTCTTTAAGAGGA
TTATTCTGTTTTACAATTTCAATTCTAGATCACATTTTATATATGCTGCATGCCAAAAA

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FIGURE 2103

MWTEIFIFCLRIYEVYHIRGLKQGVYFVILKLFCIWTNTKYP SGLFFFFLNLCIHLILLRIPSKQKNLLCHLHYS
NYRLKKYGQFLKKFRLCFPWKDKSDCS

2381/2825
FIGURE 2104A

GAGCCGGCCGCGGCGCCCTCTCTCCGTGTGGCCCCCTGAGCGGCCCCCTCCCCTGCCCCGGGAGGGAGGCGGGGG
GCACCTGGGGCCCGCC**ATGA**ACCCCGGCTTCGATTTGTCCCGCCGGAACCCGCAGGAGGACTTCGAGCTGATTCA
GCGCATCGGCAGCGGCACCTACGGCGACGTCTACAAGGCACGGAATGTTAACTGGTGAATTAGCAGCAATTAA
AGTAATAAAATTGGAACCAGGAGAAGACTTTGCAGTTGTGCAGCAAGAAATTATTATGATGAAAAGACTGTAAACA
CCCAAAATATTGTTGCTTATTTTGAAGCTATCTCAGGCGAGATAAGCTTTGGATTTGCATGGAGTTTGTGGAGG
TGGTTCCTTACAGGATATTTATCACGTAACCTGGACCTCTGTCAGAACTGCAAATTGCATATGTTAGCAGAGAAAC
ACTGCAGGGATTATATTATCTTCACAGTAAAGGAAAAATGCACAGAGATATAAAGGGAGCTAACATTCTATTAAC
GGATAATGGTCATGTGAAATTGGCTGATTTTGGAGTATCTGCACAGATAACAGCTACAATTGCCAAACGGAAGTC
TTTCATTGGCACACCATATTGGATGGCTCCAGAAGTTCAGCTGTTGAGAGGAAGGGGGGTTACAATCAACTCTG
TGATCTCTGGGCAGTGGGAATCACTGCCATAGAAGTTCAGAGCTTCAGCCTCCTATGTTTGACTTACACCCAAT
GAGAGCATTATTTCTAATGACAAAAAGCAATTTTCAGCCTCCTAACTAAAGGATAAAATGAAATGGTCAAATAG
TTTTTCATCACTTTGTGAAAATGGCACTTACCAAAAAATCCGAAAAAAGACCTACTGCTGAAAAATTATTACAGCA
TCCTTTTGTAAACACAACATTTGACACGGTCTTTGGCAATCGAGCTGTTGGATAAAGTAAATAATCCAGATCATT
CACTTACCATGATTTTCGATGATGATGATCCTGAGCCTCTTGTGTGCTGTACCACATAGAATCACTCAACAAGTAG
AAACGTGAGAGAAGAAAAAACACGCTCAGAGATAACCTTTGGCCAAGTGAATTTGATCCACCTTAAGAAAGGA
GACAGAACCACATCATGAACCTCCCGACAGTGATGGTTTTTTGGACAGTTCAGAAGAAATATACTACACTGCAAG
ATCTAATCTGGATCTGCAACTGGAATATGGACAAGGACACCAAGGTGGTTACTTTTTAGGTGCAACAAGAGTCT
TCTCAAGTCTGTTGAAGAAGAATTGCATCAGCGAGGACACGTCGCACATTTAGAAGATGATGAAGGAGATGATGA
TGAATCTAAACACTCAACTCTGAAAGCAAAAAATTCACCTCCTTTGCCACCAAGCCTAAGTCTATCTTCATACC
ACAGGAAATGCATTCTACTGAGGATGAAAATCAAGGAACAATCAAGAGATGTCCCATGTCAGGGAGCCAGCAAA
GCCATCCCAAGTTCACCTAGACCACCACTCCAGATTACCCCCACACAAACCTGTTGCCTTAGGAAATGGAAT
GAGCTCCTTCCAGTTAAATGGTGAACGAGATGGCTCATTATGTCAACAACAGAATGAACATAGAGGCACAAACCT
TTCAAGAAAAAGAAAGAAAGATGTACCAAAAGCCTATTAGTAATGGTCTTCTCCACACCTAAAGTGCATATGGG
TGCAATGTTTTTCAAAGTTTTTAAATGGGTGTCCCTTGAAAATTCAGTGTGCATCATCATGGATAAACCAGATAC
AAGAGATCAGTACTTGATATTTGGTGCCGAAGAAGGGATTTATACCCTCAATCTTAATGAACCTTCATGAAACATC
AATGGAACAGCTATTCCCTCGAAGGTGTACATGGTTGTATGTAATGAACAATTGCTTGCTATCAATATCTGGTAA
AGCTTCTCAGCTTTATTCCCATAAATTTACCAGGGCTTTTTGATTATGCAAGACAAATGCAAAAGTTACCTGTTGC
TATTCCAGCACACAACTCCCTGACAGAATACTGCCAAGGAAATTTTCTGTATCAGCAAAAATCCCTGAAACCAA
ATGGTGCCAGAAGTGTGTGTGTGTAAGAAATCCTTACACGGGCCATAAATACCTATGTGGAGCACTTCAGACTAG
CATTGTTCTATTAGAATGGGTTGAACCAATGCAGAAATTTATGTTAATTAAGCACATAGATTTTCTATACCATG
TCCACTTAGAATGTTTGAAATGCTGGTAGTTCTCTGAACAGGAGTACCCTTTAGTTTGTGTTGGTGTCTAGTAGAG
TAGAGACTTCAACCAAGTGGTTTCGATTTGAGACGGTCAATCCAAATTCTACCTCTTCATGGTTTACAGAATCAGA
TACCCACAGACAAATGTTACTCATGTAACCAACTGGAGAGAGATACCATCCTTGTATGCTTGGACTGTTGTAT
AAAAATAGTAAATCTCCAAGGAAGATTAATAATCTAGCAGGAAATTTGTATCAGAACTCACCTTTGATTCCAGAT
TGAATCAATAGTGTGCCCTACAAGACAGTGTGCTAGCTTTCTGGAAACATGGAATGCAAGGTAGAAGTTTATGATC
TAATGAGGTAACACAAGAAATTTAGATAGCACAGAATTTTCAGGCTGCTTGGATCTGACAGGGTCGTGGTTTT
GGAAAGTAGGCCAACTGATAACCCACAGCAAAATAGCAATTTGTACATCCTGGCGGGTCATGAAAACAGTTAC**TG**
AGAATTGTTGTGCTTTGACAGTTAACTCTAGAAAGAAAGAACTACCCTGCAACATTAATGGATGCTTGAAGC
TGTACAAAAGCTGCAGTAACCTGTCTTCAGTTACTTTGTAATTTATTGTGGCATGAGATAAGATGGGGAAAAATTT
TGTTTTAAGTGGTATGGATATATTTAGCATATTGAACCACACAAGTGCTTAATTCATTGTTATGTAATCTTTGTA
CATATAGGCAGTATTTTTTCTGTGAACTTCATATTGCTGAAGACATACACTAAGAATTTATGTAGATAATGTAC
TTTTATGAGATGTACAAGTAAGTGTCTTATCTGTACAGATGTAAATGTTGATGAAAATGCAATTGGGGTTAATAT
TTTAAGAATTCCTTTAGTATATTCTTGGGTGTGGCTATATTACAAAATGGGATGCTGGCAATGAAACAATACATTT
AACACTATTGTATTTTTATTATATGTAATTTAGTAATATGAATATAAATCTTGTAACCTTTTAAATTTGTAATGGA
GGCTGTAATCATTTTTATAATCTTTTTAATTTAATGCAAGTACACTGGTGTATATTTGCACAAAGTATTGATA
TGTGATGTATTAAGTCACAAAAGTAAGCTGTGACATTGTCTATAAGCATTGGCTCCACAAATGTATTTGGATTG
TTTTCTATGTGAAGCAAACCAATTATAATTAACCACATGTTGTAGTAACCTGGTCTTTTTATATTTAAGCAGAATC
CTGTAAGATTGCTTGTCTTTGCTTAAAAACAATACCTTTGAACATTTTGAATCACAGAATAGCGGTACCATGAT

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FIGURE 2104B

AGAATACTGCAATTGTGGTCAGAATTACAGTATGCACAAAGAATTAATTAGCATTATTAAAGAGTCCTCACTAAA
CATTTTCATATGATCACACTGAAGAACTGTAACATTCCATAGAGTGAAGTGGTTCAAATTTCTCTTGGGAATTTTAA
CTTTTGTTGGCCTTATTTTATGATCCTTTTCATATTTCTTTTGACTTAGAGTATTAATACATGGCCAAAATAATT
TAGTTACTACCTCATACAAACAATATAATGGTTACTACACATCACAGGAACTTAGTTTTGGTTTAAAGTCATTTTT
GATTGCTTTTTTCCAATGGAATATGTATATACCAGGTTTTAGCAAATGCACACTTTTGGCTCTTTTGGTATAT
GTTCTTTATATTTAATGTGAGTATATACACTAAGAACAACTAAATTGTGATTTATGATCTTCATTTATTTTAA
TGATAATGGTTTTAAATATGTTCTGATTGTACATATTGTAAAATAAACATGTTTTTTAACAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAA

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FIGURE 2105

MNPGFDLSRRNPQEDFELIQRIGSGTYGDVYKARNVNTGELAAIKVIKLEPGEDFAVVQQEIIMMKDCKHPNIVA
YFGSYLRRDKLWICMEFCGGGSLQDIYHVTGPLSELQIAYVSRETLOGLYYLHSGKMHRDIKGANILLTDNGHV
KLADFGVSAQITATIARKRSFIGTPYWMAPEVAVERKGGYNQLCDLWAVGITAIELAELOPPMFDLHPMRALFL
MTKSNFQPPKLKDKMKWSNSFHHFVKMALTKNPKKRPTAEKLLQHPFVTQHLTRSLAIELLDKVNNDHSTYHDF
DDDDPEPLVAVPHRIHSTSRNVREEKTRSEITFGQVKFDPPLRKETEPHHELPDSGDGLDSSEEIYYTARSNLDL
QLEYGQGHQGGYFLGANKSLLKSVEEELHQRGHVAHLEDDEGDDDESKHSTLKAKIPPPPLPPKPKSIFIPQEMHS
TEDENQGTIKRCPMSGSPAKPSQVPPRPPPPRLPPHKPVALGNMGSSFQLNGERDGSQCQQQNEHRGTNLSRKEK
KDVPKPI SNGLPPTPKVHMGACFSKVFNGCPLKIHCASSWINPDTRDQYLIFGAEEGIYTLNLNELHETSMEQLF
PRRCTWLYVMNNCLLSISGKASQLYSHNLPGLFDYARQMOKLPVAIPAHKLPDRILPRKFSVSAKIPETKWCQKC
CVVRNPYTGHKYL CGALQTSIVLLEWVEPMQKFMLIKHIDFPIPCPLRMFEMLVVPEQEYPLVCVGVSRGRDFNQ
VVRFETVNPNSTSSWFTESDTPQTNVTHVTQLERDTILVCLDCCIKIVNLQGRKSSRKLSELTFDFQIESIVC
LQDSVLAFWKHGMQGRSFRSNEVTQEISDSTRIFRLLGSDRVVLESRPTDNPTANSNLYILAGHENS Y

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FIGURE 2106A

GCTTATATTTTTTCCAGCTCCCAAATTCCCTTTATTCACCTTTAGTCCCTTCATTTTCAGAGATGAGGAAACAGA
TTGCTTTGTTCAAAGACAGCTAGAACTAGAACACAGGCTAATACTTGCTAGCCATGTGATATACTAATGTCAGCC
AAATACGGGCATTTACACTTTTCAGATGTTTGCCATATCTGTGCACCTTACTAATTCTGTTTAAATACAATTTAAATT
GACTCCTTTAAATAAGCTTATTTTAAAGGAAATTTTTTGCTACTATAAATAGAAAACCATTATATCCTTTAAATA
GTAACCTCTAAATAGGAATTCAAAACAAAGCAACGTTATTTAAATTTAAATTTAAATTTAAATTTAAATTTGTT
ATTAAATTTTTAAATTTATGCTGTTCTTCGTCAGAAATGTGTCAAAGCATTGTTTTTCATGTTTGATGTCAGTTCCT
TAATTGTCTAAACAGAAAAAGCACAGCTAATGCCTCTAGTTAAGCTTCTGTATAACTTTTTTAAATGAAATGCTT
CTTAGAGGGGAAATGAGAGGGCATGAATACATGTTTATATACTAAAGTATGATTTTCATGTATATCAGAAGATCTT
ATTATATGGAACCAAATTTATTTCTTTGGTTGATTTAATTGTTCTTGAACTTCAGTTTTTACCTTGAAGGTTTTA
GTTAGCTTAGCATAAGTTTTATTTTCTAAATAAGGAATCTGATTGCCTCACAACCTCAGATGTATCACAGTTATGG
TGAAATAGCAATATATTGGTTTCTGTAACTTTTAAATACCGTAATGAATTTAAATCTCTTCAGCAAAAGCAAAT
ATATCTAGGGTGACGAGAGGTGTTTTTAGTGATTTGAATGATGGAAATGTTTTTCTTAAATATTTCTGAAGCA
TTTTTTAAATAATTTTTTTGAATTTATTGATGATAGTAGTTGTGTGTTAGTGTGAATGACTGGTCTAAATGTGTA
TGTCACCTTCCAAGGGATTAGTAGGGGTCAGAAATGATTTGTTTTATTTCATTGACTTTTCTTTGACGTGTTCTTAT
TCATTGGGCTACATACATTCCCTGTTGCCTTCTCACCAAAAGTGCCACTACACAGGCTGTATTTTCATTGTACTGT
AGAAAAAGACAAGTAGACCTTTTTTCATTTCATGAGATTCCCTATGAAATCTGTTGGTGGAGGTATAAAATGAGGAGA
CTTTTATGGGCTAGCTAGTAGGAGTTTTGCTGTGAAACCTTTGTAACAGGTCTATCAGGAAGTAGGGAGAGAAAT
AAATGCAGGAAATACTTGATCCCATTAAACTGAGGATGAAAAAGACATGATAATATTTTGGGGATTATTTATTGT
GTGATTTTCCGGCTGATCAGAAGTGTTAATTTTTTGTATACTTGTGTCAAATACATATATATATATATATATTTTG
AAATGGAGTCTTGCTCTGTCAACCAGGCTGGAGTGCAGTGGTGCATCTGGGTTCACTGCAACCTCTGCCTCCAG
GTTCAAGTGATCCTCCTGCCTCAGCCTCCCGAGTAGCTAGGACTACAGGCACGTGCCACCACGCCCTGCTAATTT
TTGTATTCTTAGTGGAGATGGGGTTTTACCATGTTGGCCAGGCTGGTCTTGAACCTCCTGACCTCAAGTGATCTTC
CCACCTTGGCCTTTCTGAACTATTTCTTTTACACACATTTAGAACTACATCTAAGTGTATTATAGTTTTTCACTTT
CACCATCAGACAAAATTCAGAAGATTCAAGAGAAGGAAAGTCGATTGTATTTACTCATATTTTTTGTACCGTGT
TTTACATCTCATATTTTTAAGGCTCTCTTAATTTATTTTCTGTTTAGTTAATTTCTCTAGCCATTCTTTATT
TATAGTGGGTCTGCTGGTAACAAATTTCTCTCAATTTTCTCTCGTCTGAGAATGTCTTGACTTCCCTTCCATTTTT
GTCAGCACCTGAAAAATACTATGCCACTATCTTCTGGGTTCTGTGGTTTCTGATGAGAAGTCCACTGTCAGTCTA
ATTGTCGTTATAAATGCAGTGTTCTCTCTCTCTCTCTGCTTCCAGGATATTTTTCTTTTTTTTTTTTTTTTTT
TCTTGAGACGGAGTCTCACTCTGTGCGCCAGGCTGGAGTGCAGTGGCGCAATTTTGGCTCACTGCAAGCTCTGCC
TCCCGGGTTCAAGCGATTACTCCCACTTTAGCCTCCCAAGTAGCTAGGACTACAAGGCACACCACCATGCCTGGC
TAATTTTTGTATTTTTTAGTAGAGACGGGGTTTACCATGTTGCCAGGCTGGTCTCGAACTCCTGACATCAAGTG
ATCTTCTGCTCCTCCGCTTCCCAAAGTGCTGGAATTACAGGCGTGAGCCACTGCTCCAGCCTCTTTATTTTTTCA
GCTTTACTCTTTCTTCTGTCTTTTTGACATGTGTGTCAGTGACACAGTGTTAGATTTTGCTATAGTCTCACGC
ACGGGCTATATAAGGCTCTGTTTTTGTTCATTTTGTTTTTCTTATTTCTCTCTATTTCAGATCGAGTAATTTCC
ACTGTTCAGTTTTATCATAGCTGCTTTTAAATCTTTGTCAGGTAATCTGTCTATCTAAGTTTTGGCACCTATTGA
TTATCTTTTGCAATTGTTTTTGTTCCTGTTTTGTTTTGAGATGGAGTCTTGCTCTGTTGCCAGGTTGG
AGTGCAGTGGCACTGATCTCGGCTCACTGCAACCTCCTCCTCCGGGTTCAAGTGGTTCTCCTGCCTCAACCTCC
TTAGTAGCTGGGATTACAGGCATGTGCCACCACGCCCGGCTAATTTTGTATTTTTTAGTAGAGACCAGGTTTATCC
ATGTTGGTCAGGCTGGTCTCAAACTCCCAACCTCAAGTGATCCGCTGCCTCGACCTCCCAAAGTGCTGGGATTA
CAGGCGTGAACCACTGCACCCAGCCTATCTTTTGCAATTGTTTTAAATCTTGTTCTTGCTAGGATGAATGATTTTC
TGTTAAACTAGATATTTTTCATATTATGTTTCTAGGCTCTGGATATTATCTAAACCTTCTGTTTCCACTGGCCTT
TATTGACACTGCTTTGGCAAGGTCATAGGGGGTGCTTCTTGTATTGCTGGGTGGGGGTGGAAGTCTAGCTGACAC
CTACTGAGGTAGGTGCTGGGGCATGCCCCGCCATCAGGGTGAAAGTCTGGCTCCCTAGTTGGCCTACTTTTACA
TTGCCCTAATAGGGCATTGGAGCTCCTCACTATGGTTTATGAGCTGGAAGTCAAGGCTCCTCACTTAGCTTTTCTG
TGGTGTGGGTGGTGGTGGGGCAAACTGTTTTCTGGGTTTGGCTGGAGTGGAGCAGTTACTGTCAAAAGTTTTCT
GTCTTGCCAGGCTGTCCCTTTCTTGTTCCTTTGGCTAGAGAGAGCAAGCTTTTGTGTGGCTCTTTTTGTCTGTG
CCAGTTGGCATTTCAGGTTGCTGCCTTCTTTAGCTCCAAGTCTGGGATATATTAGGCAAAAAGAAAACCCAGAG

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FIGURE 2106B

AATTTACACCACCGTGTCAATTCCATGGGTCTGAGGTCCCTTACTTAGTCTGCCTTCTCTCCACTTTTTCACAGTC
TTCTCATGTTTTGTATATAATGTCCAGGGTCTTTAGTTATACTTAGCAGAAATAAAAGGGAAAAAGTATGTCTGCT
CTATGCTTCTGTAAGTGGAAGTCTTCAAATTTGCATTTTTGATTCCCTTTAAACAGTTTTGTAAAAATATATAATCA
TTATTGGGCAAAATGTCCCATAAAAATGTATATACCTTGTGATGGTTTGCATAATATTGTGTTCAAGAGGACTGCT
GAAAAATAACATCTTTATTTAAACTGAAACGAATTGTTACATTATTAATGAAAACTTTTCCCTCTAGGAAATA
ATGCAAAAGGTGTCCCAAGGCTCCTGACCAGTGAACAAAGATTTGAGAAAGACAGCCAAGCTCATGTTTTCTCCT
GATCAAGAAAATCATCCATCTAAAGCACCAGTAAAATATGGTGAACCTCATTGTCTTAGGCTATAATGGGTCTCTC
CCAAATGGCGATAGAGGAAGGAGGAAAAAGTAGGTTTGCTTTGTTTAAAAGACCTAAGGCAAATGGGGTGAAGCCC
AGCACTGTGCATATTGCTTGTACTCCTCAGGCTGCAAAGGCAATAAGCAACAAAGACCAGCATAGCATATCATAT
ACTTTGTCTCGGGCCAGACTGTGGTGGTTGAATATACTCATGACAGCAACACAGATATGTTTCAGATTGGCCGG
TCGACTGAAAGCCCCATTGATTTTGTAGTAACTGACACGGTTCCTGGAAGTCAAAGTAATTCTGATACACAGTCA
GTACAAAGCACTATATCAAGATTTGCCTGCAGAATCATATGTGAACGGAATCCTCCCTTTACAGCACGGATTAT
GCTGCAGGATTTGACTCATCAAAAAACATCTTCTTGGGGAGAAGGCTGCCAAATGGAAGACATCAGATGGACAG
ATGGATGGCTTGACCACTAATGGTGTCTTGTGATGCATCCACGCAATGGGTTACAGAAGACTCCAAGCCTGGA
ATATGGAGAGAAATATCGGTGTGTGGAATGTATTTAGCCTACGTGAAACCAGATCGGCTCAGCAGAGAGGAAAA
ATGGTGGAATTTGAAACCAATCAGTTACAAGATGGCTCGTTAATTGACCTCTGTGGTGCAACATTGTTATGGCGT
ACTGCAGAAGGCCTTTCCACACTCCTACCGTGAAGCATTTAGAAGCTTTAAGACAGGAAATCAATGCAGCACGA
CCTCAGTGCCCTGTAGGGTTCAACACACTAGCATTTCCCTAGTATGAAGAGGAAAGACGTTGTAGATGAAAAACAA
CCATGGGTATATCTAAACTGCGGCCATGTACATGGCTATCATAACTGGGGAAACAAAGAAGAACGTGATGAAAA
GATCGTGAATGTCCTATGTGTAGGTCTGTTGGTCCCTATGTTCCCTCTGTGGCTTGATGTGAAGCTGGATTTTAT
GTGGACGCCGGCCCTCCAACCCATGCGTTTAGCCCGTGTGGGCATGTGTGTTGAGAAAAGACAACCTGCCTATTGG
TCCCAGATCCCCTCCTCATGGTACTCATACTTTTCATGCAGCCTGTCCCTTTTGTGCACATCAGTTGGCTGGT
GAACAAGGCTACATCAGACTTATTTTTCAAGGACCTCTAGACTTAACAGACCATTGTCTTGAGGACTACATTATA
AATTTATAAGCTAAGTGAGTTGGGTTTTCGAACCTGTTGTCCACGTCACAGTTTTTCTGCTCTGGTCAATTGTCAT
TAAGATGAAGAATTTTTTAAACATTTATAATAAATAGTAGCAATTTCTGAGCAAAAATCTGGGAAACTCAAGCA
AAGGAATTTCTGAAAGTATCAGTCTTCTGAATTTCTGAGTTTTGAAAATATATTTTGAGGAGAAAAAGACATAGTC
TAATTTGATGCCTTCCTTTTAGTGTTTTTGAATCACCTATCCTCAGTGCTGAAATTGTTTTGTATAACTGAGGGT
ACTGTTGGTTCAAACATATGTTAGTTTACAGTTTGTGTCAAACATTGTAAAATACAGCGACATGTATATTAACTTT
TTTCTATTTATCTTTATTATAGAAAATACCTTAGAATGTTCTTGATAGAGTAGCATGGTAACGATGGTGTACAC
CCTTGGTGTGAATGGTAGCTTAGTGAGCAACCTAGCTCAAGGATTTGCAAAGTTAGGAAGAAGGACGAGAGAGCC
TCTCTCCCCACCCCAATCTAAATATGGAATTTGGTAAATTAGAATACTTTGTAATTTGTAAGACCAAATTCATAC
TAATTACCCGCGTGAAAGGTGTTTGTTTTTAACAACATTGAAGATAATCAGGAAAGATTTTTCTTAATGTTTCT
CTCGAGCGTAGTACTATAACAAAACTTAATGCTAAGAAACATTTTATATGCTCCTTTGGATATGCAATTTAATC
TAGATTATCTATTTTTCTCCCATGATACTAATCTGTTTTTAGTATCAGCAGCATTGGCAAGTTTATTTTTTG
ATATAAACTGTGGTTCATCTGTTCACTGTTTCTAGAAAAAATCATTGCCATAAGAAAAAGTATAAATTAGCAAG
AAAGGAGAGTGACTTGATTTGCTTTTGAAAAAGAAATGCTTAATTAATTATCTGTATTTGGCCTTATTCGGGC
ATTAGGAAATCTAGAGATCTAAAGGGTTGAATGACAATAGTGCCCCGTTTTTAGCAGACCAGCCTTAACCTG
GTTTGAATCCTAAGGAGATTGCCACAGTGAGACTTAAGGAAATGTTGGTTGGCAGATGAGCACCAATGACTGCA
GCGTGGAGTGACGCACTGCATGGTCTGTTTATTCTCTAATTCCAATAIGTCTTTTGCTTCAGAAGCAAGAAAAAG
TTTCTTCTCTCCCCCTCCTTCCCACCCTTTTTTCAAAGGCACCACAAGTATAGACAGTTGCACTACATCAAATCTT
TTTTTGACACTTGTAGAAACCAGTACACTTTTAGATTAGACAGTATCTTCTTTTAATATTTTGATTTGTTTTCT
TTAGTTTGAAAAGTTGTATAATACTTAACCTGACTGTAGCAAAGTTTTATATGTGGTAGCATACCTTTAATTTATC
CTATTACAAAACCTGTTCTGAATTTTCTTTTGGTTTTTAAAAAACAAACCTGTTGCTTAGAAGCCATGAATTATT
TTATTTTACTTCAACTGTGCAAACTTCCTTGTTTTAAAAATGATCATTGGGTTCACTCAGGAAATGCATGTCA
GGAAACTTGTATTATAAGTTTATTAGTTGTGATGTATCAGTAACTGCTGTTACCCCTTTTTTCAAAGAAATGTAAT
TGATTTTGAAGTTTTCTAGATTGTCACATGCTTTGTGACTAATGCAAGAAAGCAAGTCCTGTGTTGTATTTGTTT
TAGTCATTTTTATTACAGGCTATATATTGTAGCTTAATTTTTATTGCAATTAATTTATTTAACTAAGTAAATAC
TTTTCAAAATA

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FIGURE 2107

MFSPDQENHPSKAPVKYGELIVLGYNGLPNGDRGRKSRFALFKRPKANGVKPSTVHIACTPQAAKAISNKDQH
SISYTLSRAQTVVVEYTHDSNTDMFQIGRSTESPIDFVVTDTVPGSQSNSDTQSVQSTISRACRIICERNPPFT
ARIYAAGFDSSKNIFLGEKAAKWKTS DGQMDGLTTNGVLVMHPRNGFTEDSKPGIWREISVCGNVFSLRETRSAQ
QRGKMVEIETNQLQDGLIDLGCATLLWRTAEGLSHTPTVKHLEALRQEINAARPQCPVGFN TLAFPSMKRKDVV
DEKQPWVYLNCGHVHGYHNWGNKEERD GKDRECPMCRSVGPYVPLWLGC EAGFYVDAGPPTHAFSPCGHVCSEKT
TAYWSQIPLPHGTHTFHAACPFCAHQLAGEQGYIRLIFQGFLD

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FIGURE 2108

GTTCGGAGCGGGCGAGCGGAGTTAGCAGGGCTTTACTGCAGAGCGCGCCGGGCACTCCAGCGACCGTGGGGATCA
GCGTAGGTGAGCTGTGGCCTTTTTCGAGGTGCTGCAGCCATAGCTACGTGCGTTCGCTACGAGGATTGAGCGTCT
CCACCCAGTAAGTGGGCAAGAGGCGGCAGGAAGTGGGTACGCAGGGGCGCAAGGCGCACAGCCTCTAGACGACTC
GCTTTCCCTCCGGCCAACCTCTGAAGCCGCGTCCTACTTTGACAGCTGCAGGGCCGCGGCCTGGTCTTCTGTGCT
TCACCATCTACATAATGAATCCCAGTATGAAGCAGAAACAAGAAGAAATCAAAGAGAATATAAAGAATAGTTCTG
TCCCAAGAAGAACTCTGAAGATGATTGAGCCTTCTGCATCTGGATCTCTTGTTGGAAGAGAAAATGAGCTGTCCG
CAGGCTTGTCCAAAAGGAAACATCGGAATGACCACTTAACATCTACAACCTCCAGCCCTGGGGTTATTGTCCCAG
AATCTAGTGAAAATAAAAAATCTTGGAGGAGTCACCCAGGAGTCATTTGATCTTATGATTAAAGAAAATCCATCCT
CTCAGTATTGGAAGGAAGTGGCAGAAAAACGGAGAAAAGGCGCTGTATGAAGCACTTAAGGAAAATGAGAACTTC
ATAAAGAAATTGAACAAAAGGACAATGAAATTGCCCGCCTGAAAAAGGAGAATAAAGAACTGGCAGAAGTAGCAG
AACATGTACAGTATATGGCAGAGCTAATAGAGAGACTGAATGGTGAACCTCTGGATAATTTTGAATCACTGGATA
ATCAGGAATTTGATTCTGAAGAAGAACTGTTGAGGATTCTCTAGTGGAAGACTCAGAAATTGGCACGTGTGCTG
AAGGAACTGTATCTTCTCTACGGATGCAAAGCCATGTATATGAAATGCATTAATATTTGACTGTTGAGAATTTT
ACTGCCGAAGTTTACCTCCACTAGTTCTTTGTAGCAGAGTACATAACTACATAATGCCAACTCTGGAATCAAATT
TCCTTGTTTGAATCCTGGGACCCTATTGCATTAAAGTACAAATACTATGTATTTTTTAATCTATGATGGTTTATGT
GAATAGGATTTTCTCAGTTGTCAGCCATGACTTATGTTTATTACTAAATAAACTTCAAACCTCCTGTGGAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2109

MNPSMKQKQEEIKENIKNSSVPRRTLKMIQPSASGSLVGRENELSAGLSKRKHRNDHLTSTTSSPGVIVPESSEN
KNLGGVQTQESFDLMIKENPSSQYWKEVAEKRRKALYEALKENEKLHKEIEQKDNEIARLKKENKELAEVAEHVQY
MAELIERLNGEPLDNFESLDNQEFDSEETVEDSLVEDSEIGTCAEGTVSSSTDAKPCI

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FIGURE 2110

GCGGACGCGTGGGCGGACGCGTGGGGAAAGTTACGAGGTTTCGTGGCCGCGGTTTCCCCAGGCAGCTGGCGCTGGA
GGCTTCGGCGTCACGTGCTGGTCTGGATTTTTCTCGATGCACTGGGGAAAGCGGTGGACTCTTATCGTGGGAGGG
CTCTTGATCTGTGATTTATAGATAGGCACAGCTACTCCCGTTTCGGGAACCCAACGGCAGACAGGTCCTAGTGCCC
ATCAGATACCCGCGGCCGGGACTCGGAGCTGTGGGGTGTGGGGAGGCGGAGGCACCAACTAAGAGCGACCTAGCA
TCGCAAAGCCGCCCTCGGGGCGCTC**ATG**GCGGGACGCCTCCTGGGAAAGGCTTTAGCCGCGGTGTCTCTCTCTCT
GGCCTTGGCCTCTGTGACTATCAGGTCCTCGCGCTGCCGCGGCATCCAGGCGTTCAGAAACTCGTTTTTCATCTTC
TTGGTTTCATCTTAATACCAACGTCATGTCTGGTTCTAATGGTTCCAAAGAAAATTCTCACAATAAGGCTCGGAC
GTCTCCTTACCCAGGTTCAAAAGTTGAACGAAGCCAGGTTCTAATGAGAAAGTGGGCTGGCTTGTTGAGTGGCA
AGACTATAAGCCTGTGGAATACACTGCAGTCTCTGTCTTGGCTGGACCCAGGTGGGCAGATCCTCAGATCAGTGA
AAGTAATTTTTCTCCCAAGTTTAACGAAAAGGATGGGCATGTTGAGAGAAAAGAGCAAGAATGGCCTGTATGAGAT
TGAAAATGGAAGACCGAGAAATCCTGCAGGACGGACTGGACTGGTGGGCCGGGGGCTTTTGGGGCGATGGGGCCC
AAATCACGCTGCAGATCCCATTATAACCAGATGGAAAAGGGATAGCAGTGGAAATAAAATCATGCATCCTGTTTC
TGGAAGCATATCTTACAATTTGTTGCAATAAAAAGGAAAGACTGTGGAGAATGGGCAATCCAGGGGGGATGGT
GGATCCAGGAGAGAAGATTAGTGCCACACTGAAAAGAGAATTTGGTGAGGAAGCTCTCAACTCCTTACAGAAAAC
CAGTGCTGAGAAGAGAGAAATAGAGGAAAAGTTGCACAACTCTTCAGCCAAGACCACCTAGTGATATATAAGGG
ATATGTTGATGATCCTCGAAACACTGATAATGCATGGATGGAGACAGAAGCTGTGAACTACCATGACGAAACAGG
TGAGATAATGGATAATCTTATGCTAGAAGCTGGAGATGATGCTGGAAAAGTGAAATGGGTGGACATCAATGATAA
ACTGAAGCTTTATGCCAGTCACTCTCAATTCATCAAACCTTGTGGCTGAGAAACGAGATGCACACTGGAGCGAGGA
CTCTGAAGCTGACTGCCATGCGTTG**TAG**CTGATGGTCTCCGTGTAAGCCAAAGGCCACAGAGGAGCATATACTG
AAAAGAAGGCAGTATCXGAGAATTTATACTATAAAAAGGGCAGGGTAGGCCACTTGGCCTATTTACTTTCAAAC
AATTTGCATTTAGAGTGTTCGCATCAGAATAACATGAGTAAGATGAACTGGAACACAAAATTTTACGCTCTTTG
GTCAAAAGGAATATAAGTAATCATATTTTGTATGTATTTCGATTTAAGCATGGCTTAAATTAAATTTAAACAAC
ATGCTCTTTGAAGAATCATAATCAGAATAAAGATAAATTCCTTGATCAGCTATAAAAAAAAAAAAAAAAAA

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FIGURE 2111

MAGRLLGKALAAVSLSLALASVTIRSSRCRGIQAFRNSFSSSWFHLNTNVMSGSNNGSKENSHNKARTSPYPGSKV
ERSQVPNEKVGWLVEWQDYKPVEYTAVSVLAGPRWADPQISESNFSPKFNEKDGHVERKSKNGLYEIENGRPRNP
AGRTGLVGRGLLGRWGFNHAADPIITRWKRDSSGNKIMHPVSGKHILQFVAIKRKDCGEWAIPGGMVDPGEKISA
TLKREFGEEALNSLQKTSAEKREIEEKLHKLFSDHLVIYKGYVDDPRNTDNAMEAVNYHDETGEIMDNML
EAGDDAGVKWVDINDKLKLYASHSQFIKLVAEKRDHAWSEDSEADCHAL

[illegible]

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FIGURE 2113

MP LDPYHSVTWGH AQGSHHFVFGELRVRP ILESLRDEPD PDPRPSREGPAGRVGALARDGPEPCDAASPPGGASC
APELARPREDKSAQQAKLEGGTRLCCRCPEESRLVPGGAVSPGDHVLEVSGTRGTCGCRPRRHAGPELAHS

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FIGURE 2114

GGCACGAGGCTCACC**ATG**GTGGGCCCCGCGCCGCGGCGGGCTGCGGCCGCTGGCAGCGCTGGCCCTGGTCCTG
GCGCTGGCCCCGGGGCTGCCCACAGCCCGGGCCGGGCAGACACCGCGCCCTGCCGAGCGGGGGCCCCCAGTGCGG
CTTTTCACCGAGGAGGAGCTGGCCCGCTATGGCGGGGAGGAGGAAGATCAGCCCATCTACTTGGCAGTGAAGGGA
GTGGTGTTTGATGTCACCTCCGGAAGGAGTTTTATGGACGAGGAGCCCCCTACAATGCCTTGACGGGGGAAGGAC
TCCACTAGAGGGGTAGCCAAGATGTCCTTGATCCTGCAGACCTCACCCATGACACTACGGGTCTCACGGCCAAG
GAACTGGAGGCCCTGGATGAGGTCTTCACCAAAGTGTAAGCCAAATACCCCATCGTCGGCTACACTGCCCCG
AGAATTCTCAATGAGGATGGCAGCCCTAACCTGGACTTCAAGCCTGAAGACCAGCCCCATTTTGACATCAAGGAT
GAGTTC**TGAT**GTTCCTCCCTGCAGGAGCAGGTTCTTGGGAGCGTGAGGCAGGAAGACACTAGGTGCTGAATCTCCT
GCAAACTGGCTGCCTGGAGGCCCTGAGCCACCCAGATCTGAATAAAACAGATGCTTACCCTGGAAGAGCAAATG
CCTCCTGTTGTCTTTGGTCAGGGGTTCTGTCTACCTGGGGACCCCTGTCTGCACACCAGGGATCAATAAGAGCCA
AAGTGGGACACCTCCTAGATGTCAGTATCAGCTGGCTGGGCAGTGAATTTTGAGCGACCTTTACTTTATACTTT
TCTGTGCTTGACAGATTTTCAGCCATGACCATGTTCACTTTATAATCAAAACAAAAATAAAGGTCCCATTTTAC
AAAAGGAAA

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FIGURE 2115

MVGPAPRRRLRPLAALALVLALAPGLPTARAGQTPRPAERGPPVRLFTTEELARYGGEEEDQPIYLAVKGVVFDV
TSGKEFYGRGAPYNALTGKDSTRGVAKMSLDPADLTHDTTGLTAKELEALDEVFTKVYKAKYPIVGYTARRILNE
DGSPNLDFKPEDQPHFDIKDEF

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FIGURE 2116

TAAATGGCAGCCAATGGAGGGTGGTGTTCGCGGGGGCTGGGATTAGGGCCGGGGCGAATGGCTGGCAATCTTACT
GGGATTACAGAACAAAGAGCCTCCCCGCGCTCCCGCTCTCCGCTCCTCTCCCCGCGCCGCCCGCCCTCCGCCGC
AGCCCGCGCCGGGGGTGGGGGCCGCCGAGCGCCAGCCCCCGGCCGGCCGATTCCCCCCCCGCGCCCCCTCCCCG
CGCTCCCTCCCCGCCCTCGCCGCGCCGCCGTCTCGCTCCCTCTGCCTCTCCTTCCCCATTCTCCCGGATTA
ATTAAGGAGGCAGCGGCAGGAGGCTGAGTCCTGGCCGCGGGCCGGGGCCGGGGCGCCGCTGGCAGGAGCGCTTGG
GGATCCTCCAAGGCGACCATGGCCTTGCTGGGTAAGCGCTGTGACGTCCCCACCAACGGCTGCGGACCCGACCGC
TGGAATCCGCGTTCACCCGCAAGACGAGATCATCACCAGCCTCGTGTCTGCCTTAGACTCCATGTGCTCAGCG
CTGTCCAAACTGAACGCCGAGGTGGCCTGTGTGCGCGTGCACGATGAGAGCGCCTTTGTGGTGGGCACAGAGAAG
GGGAGAATGTTCTGAATGCCCGGAAGGAGCTACAGTCAGACTTCCTCAGGTTCTGCCGAGGGCCCCCGTGGAAG
GATCCGGAGGCAGAGCACCCCAAGAAGGTGCAGCGGGCGAGGGTGGAGGCCGTAGCCTCCCTCGGTCTCCCTG
GAACATGGCTCAGATGTGTACCTTCTGCGGAAGATGGTAGAGGAGGTGTTTGATGTTCTTTATAGCGAGGGCCCTG
GGAAGGGCCAGTGTGGTGGCACTGCCCTATGAGAGGCTGCTCAGGGAGCCAGGGCTGCTGGCCGTGCAGGGGCTG
CCCGAAGGCCTGGCCTTCCGAAGGCCAGCCGAGTATGACCCCAAGGCCCTCATGGCCATCCTGGAACACAGCCAC
CGCATCCGCTTCAAGCTCAAGAGGCCACTTGAGGATGGCGGGCGGGACTCGAAGGCCCTGGTGGAGCTGAACGGT
GTCTCCCTGATTCCCAAGGGGTACGGGACTGTGGCTGCATGGCCAGGCCCCCAAGGTGCCACCCAGGACCTG
CCCCAACC GCCACCTCCTCCTCCATGGCCAGCTTCTGTACAGCACGGCGCTCCCCAACCACGCCATCCGAGAG
CTCAAGCAGGAAGCACCTTCTGCCCCCTTGCCCCAGCGACCTGGGCCTGAGTCGGCCCATGCCAGAGCCCAAG
GCCACCGGTGCCCAAGACTTCTCCGACTGTTGTGGACAGAAGCCACTGGGCCTGGTGGGCCTCTCATCCAGAAC
GTCCATGCCTCCAAGCGCATTCTCTTCTCCATCGTCCATGACAAGTCAGAGAAGTGGGACGCCTTCATAAAGGAA
ACCGAGGACATCAACACGCTCCGGGAGTGTGTGAGATCCTGTTTAAACAGCAGATATGCGGAAGCCCTGGGCCTG
GACCACATGGTCCCCGTGCCCTACCGGAAGATTGCCTGTGACCCGGAGGCTGTGGAGATCGTGGGCATCCCGGAC
AAGATCCCCTTCAAGCGCCCTGCACCTTATGGAGTCCCCAAGCTGAAGCGGATCCTGGAGGAGCGCCATAGTATC
CACTTCATCATTAAGAGGATGTTTGATGAGCGAATTTTACAGGGAACAAGTTTACCAAGACACCACGAAGCTG
GAGCCAGCCAGCCCGCCAGAGGACACCTCTGAGAGGTCTCTAGGGCCACCGTCTTGACCTTGCTGGGAATGCT
CGGTGAGACAAGGGCAGCATGTCTGAAGACTGTGGGCCAGGAACCTCCGGGGAGCTGGGCGGGCTGAGGCCGATC
AAAATTGAGCCAGAGGATCTGGACATCATTAGGTACCGTCCCAGACCCCTCGCCAACCTCTGAGGAAATGACA
GACTCGATGCCTGGGCACCTGCCATCGGAGGATTCTGGTTATGGGATGGAGATGCTGACAGACAAAGGTCTGAGT
GAGGACGCGCGGCCGAGGAGAGGGCCGTGGAGGACAGCCACGGTGACGTGATCCGGCCCCCTGCGGAAGCAGGTG
GAGCTGCTCTTCAACACACGATACGCCAAGGCCATTGGCATCTCGGAGCCCGTCAAGGTGCCGTACTCCAAGTTT
CTGATGCACCCGGAGGAGCTGTTTGTGGTGGGACTGCCTGAAGGCATCTCCCTCCGCAGGCCCAACTGCTTCGGG
ATCGCCAAGCTCCGGAAGATTCTGGAGGCCAGCAACAGCATCCAGTTTGTATCAAGAGGCCCGAGCTGCTCACT
GAGGGAGTCAAAGAGCCCATCATGGATAGTCAAGGAACTGCCTCCTCACTTGGCTTCTCTCCCCCTGCCCTGCC
CCAGAGAGGGATTCCGGGGACCCCTCTGGTGGACGAGAGCCTGAAGAGACAGGGCTTTCAAGAAAATTATGACGCG
AGGCTCTCACGGATCGACATCGCCAACACACTAAGGGAGCAGGTCCAGGACCTTTTCAATAAGAAATACGGGGAA
GCCTTGGGCATCAAGTACCCGGTCCAGGTCCCCTACAAGCGGATCAAGAGTAACCCCGGCTCCGTGATCATCGAG
GGGCTGCCCCCAGGAATCCCGTTCGAAAGCCCTGTACCTTCGGCTCCCAGAACCTGGAGAGGATTCTTGCTGTG
GCTGACAAGATCAAGTTCACAGTCACCAGGCCTTTCCAAGGACTCATCCCAAAGCCTGATGAAGATGACGCCAAC
AGACTCGGGGAGAAGGTGATCCTGCGGGAGCAGGTGAAGGAACTCTTCAACGAGAAATACGGTGAGGCCCTGGGC
CTGAACCGGCCGGTGTGTTCCCTTATAAACTAATCCGGGACAGCCCAGACGCCGTGGAGGTACGGGTCTGCCT
GATGACATCCCCTTCCGGAACCCCAACACGTACGACATCCACCGGCTGGAGAAATCCTGAAGGCCCGAGAGCAT
GTCCGCATGGTCATCATTAACCAGCTCCAACCCTTTGCAGAAAATCTGCAATGATGCCAAGGTGCCAGCCAAAGAC
AGCAGCATTCCCAAGCGCAAGAGAAAGCGGGTCTCGGAAGGAAATTCCGTCTCCTCTTCTCCTCGTCTTCTCT
TCCTCGTCTCTAACC CGGATTAGTGGCATCGGCCAACCAGATCTCACTCGTGCAATGGCCAATGTACATGGTG
GACTATGCCGGCCTGAACGTGCAGCTCCCGGGACCTCTTAATTACTAGACCTCAGTACTGAATCAGGACCTCACT
CAGAAAGACTAAAGGAAATGTAATTTATGTACAAAATGTATATTCCGATATGTATCGATGCCTTTTAGTTTTTCC
AATGATTTTTTACACTATATTCTGCCACCAAGGCCTTTTTTAATAAGTAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2117

MALLGKRCDVPTNGCGPDRWNSAFTRKDEIITSLSVSAIDSMCSALS SKLNAEVACVAVHDESAFVVGTEKGRMFLN
ARKELQSDFLRF CRGPPWKDPEAEHPKKVQRGEGGGRSLPRSSLEHGSDVYLLRKMVEEVFDVLYSEALGRASVV
PLPYERLLREPGLLAVQGLPEGLAFRRPAEYDPKALMAILEHSHRIRFKLKRPLEDGGRDSKALVELNGVSLIPK
GSRDCGLHGQAPKVPPQDLPTATSSSMASFLYSTALPNHAIRELKQEAPSCPLAPSDLGLSRPMPEPKATGAQD
FSDCCGQKPTGPGGPLIQNVHASKRILFSIVHDKSEKWD AFIKETEDINTLRECVQILFNSRYAEALGLDH MVPV
PYRKIACDPEAVEIVGIPDKIPFKRPCTYGV PKLKRILEERHSIHFI IKRMFDERIFTGNKFTKDTTKLEPASPP
EDTSAEVS RATVLDLAGNARSDKGSMSEDCGPGTSGELGGLRPIKIEPEDLDIIQVTVDPDPSTSEEMTDSMPGH
LPSEDSGYGMEMLTDKGLSEDARPEERPVEDSHGDVIRPLRKQVELLFNTRYAKAIGISEPVKVPYSKFLMHPEE
LFVVGLPEGISLRRPNCFGIAKL RKILEASNSIQFVIKRPELLTEGVKEPIMDSQGTASSLGFSPPALPPERDSG
DPLVDESLKRQGFQENYDARLSRIDIAN TLREQVQDLFNKKYGEALGIKYPVQVPYKRIKSNPGSVIIEGLPPGI
PFRKPCTFGSQNLERILAVADKIKFTVTRPFQGLIPKPEDDANRLGEKVILREQVKELFNEKYGEALGLNRPVL
VPYKLIRDSPDAVEVTGLPDDIPFRNPNTYDIHRLEKILKAREHVRMVIINQLQPF AEICNDAKVP AKDSSIPKR
KRKR VSEGNSVSSSSSSSSSSSSSNPDSVASANQISLVQWPMYMDYAGLNVQLPGPLNY

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FIGURE 2118A

ACCGCCTTCGCCGCGGACCTTCAGCTGCCGCGGTTCGCTCCGAGCGGCGGGCCGAGAGGTTCAAGCGATTCTCCT
GCTTCAGCCTCCGGAGTAGCTGGGATTACAGGCACGTGCCAACACACCCAGCCACCAAAATGCCAGAAGAGATGG
ACAAGCCACTGATCAGCCTCCACCTGGTGGACAGCGATAGTAGCCTTGCCAAGGTCCCCGATGAGGCCCCCAAAG
TGGGCATCCTGGGTAGCGGGGACTTTGCCCGCTCCCTGGCCACACGCCTGGTGGGCTCTGGCTTCAAAGTGGTGG
TGGGGAGCCGCAACCCCCAAACGCACAGCCAGGCTGTATCCCTCAGCGGCCCAAGTGACTTTCCAAGAGGAGGCAG
TGAGCTCCCCGGAGGTTCATCTTTGTGGCTGTGTTCCGGGAGCACTACTCTTCACTGTGCAGTCTCAGTGACCAGC
TGGCGGGCAAGATCCTGGTGGATGTGAGCAACCTACAGAGCAAGAGCACCTTCAGCATCGTGAGTCCAATGCTG
AGTACCTGGCCTCCCTCTTCCCCACTTGCACAGTGGTCAAGGCCTTCAATGTCATCTCTGCCTGGACCCTGCAGG
CTGGCCCAAGGGATGGTAACAGGCAGGTGCCCATCTGCGGTGACCAGCCAGAAGCCAAGCGTGCTGTCTCGGAGA
TGGCGCTCGCCATGGGCTTCATGCCCGTGGACATGGGATCCCTGGCGTCAGCCTGGGAGGTGGAGGCCATGCCCC
TGCGCCTCCTCCCGGCTTGAAGGTGCCACCCCTGCTGGCCCTGGGGCTCTTCGTCTGCTTCTATGCCTACAACCT
TCGTCCGGGACGTTCTGCAGCCCTATGTGCAGGAAAGCCAGAACAAGTTCTTCAAGCTGCCCGTGCTCCGTGGTCA
ACACCACACTGCCGTGCGTGGCCTACGTGCTGCTGTCACTCGTGTACTTGCCCGGCGTGCTGGCGGCTGCCCTGC
AGCTGCGGCGCGGCACCAAGTACCAGCGCTTCCCCGACTGGCTGGACCACTGGCTACAGCACCGCAAGCAGATCG
GGCTGCTCAGCTTCTTCTGCGCGCCCTGCACGCCCTCTACAGCTTCTGCTTGCCGCTGCGCCGCGCCACCGCT
ACGACCTGGTCAACCTGGCAGTCAAGCAGGTCTTGCCAACAAGAGCCACCTCTGGGTGGAGGAGGAGGTCTGGC
GGATGGAGATCTACCTCTCCCTGGGAGTGCTGGCCCTCGGCACGTTGTCCCTGCTGGCCGTGACCTCACTGCCGT
CCATTGCAAACCTCGCTCAACTGGAGGGAGTTCAGCTTCGTTCACTCCTCACTGGGCTTTGTGGCCCTCGTGCTGA
GCACACTGCACACGCTCACCTACGGCTGGACCCGCGCCTTCGAGGAGAGCCGCTACAAGTTCTACCTGCCTCCCA
CCTTCACGCTCACGCTGCTGGTGCCCTGCGTCGTATCCTGGCCAAGGCCCTGTTTCTCCTGCCCTGCATCAGCC
GCAGACTCGCCAGGATCCGGAGAGGCTGGGAGAGGGAGAGCACCATCAAGTTCACGCTGCCACAGACCAGCCCC
TGGCCGAGAAGACGAGCCACGTATTGAGGTGCCTGCCCTGGGCTCTGGACCCCGGGCACACGAGGGACGGTGCCT
GAGCCCGTTAGGTTTTCTTTCTTGGTGGTGCAAAGTGGTATAACTGTGTGCAAATAGGAGGTTTGAGGTCCAAA
TTCTGGGACTCAAATGATATGCAGTACTATTTCAGAATGATATACACATATGTGTATATGTATTTACATATATT
CCACATATATAACAGGATTTGCAATTATACATAGCTAGCTAAAAAGTTGGGTCTCTGAGATTTCAACTTGTAGAT
TTAAAAACAAGTGCCGTACGTTAAGAGAAGAGCAGATCATGCTATTGTGACATTTGCAGAGATATACACACACTT
TTTGACAGAAGAGGCTTGTGCTGTGGTGGGTTGATTTATCCCTGCCACCCCATCCCCACAACCTTCCCTTTTG
CTACTTCCCCAAGGCTCTTGCAGAGCTAGGGCTCTGAAGGGGAGGGAAGGCAACGGCTCTGCCCAGAGCCATCCC
TGGAGCATGTGAGCAGCGGCTGGTCTCTTCCCTCCACCTGGGGCAGCAGCAGGAGGCTTGGGGGGAGGAAAATC
AGGCAGTCGGCTGGAGTCTGTGCTGGTCCCTTGCCCGGTGGTGGGAGGATGGAGGGATTGGGCTGAAGCTGCT
CCACCTCATCTTGCTGAGTGGGGGAGACATTTCCCTGAAAGTCAGAAGTCACCATAGAGCCTGCAAATGGATC
CTCCTGTGAGAGTGACGTCACCTCCTTTCCAGAGCCATTAGTGAGCCTGGCTTGGGAACAAGTGTAATTCCTTC
CCTCCTTTAACCTGGCGATGAGCGTCCTTTAAACCACTGTGCCCTTCTACCCCTTTCATCTTCAGTTTGAACGAC
TCCCAGGAAGGCCTAGAGCAGACCCTTTAGAAATCAGCCCAAGGGGGAGAGCAAGAGAAAACACTCTAGGGAGTA
AAGCTCCCCGGGCGTCAGAGTTGAGCCCTGCCTGGGCTGAAGGACTGTCTTCACGAAGTCAGTCCTGAGGAAAAA
TATTGGGGACTCCAAATGTCTCTGGCAGAGGACCCAGAAAACCACACTGGCTCCAACTTCTCCTCATGGGGCA
TTACACTTCAAAACAGTGGGGAGCAACTTTTCCACCAAAGCTACAAACCTAAAATGCTGCTGCCCCAAAGCACAA
GAGGGAAGAGCACCGCCGGGGCCACAGGACGTCTGTCTCCAGTCACAGGCCATCCTTGCTGCTCCCTACTGACT
CTAGCTTACTTCCCCTGTGAAGAAACAGGTGTTCTCGGCTGAGCCCCCAACCCTCTGCAGAACAGGTTGATCTG
CCACAGAAAAAGCATCTTTGAAGACAAAGAGGGTGAGGTCTTCATGAGTCTCCTGGGCCCAAAGCCATCTTCTGA
TGGAAAGGAAGAGAGTAGGGCCAGTGAAGGCTGCCCAGAGAGAATGTCACAGATGAGGCTGCCCCCTGCCCTCCC
CGCCAGGGAGGTTTCATGAGCTCATGTCTATGCAGCACATAAGGGTTCTTCAGTGAAAAGCAGGAGAAGAGCCCCA
CTGCAAGGATAGCTCATTAGGCACATGACCGATGCAGGGAAGGCCATGCCGGGGAAGCTCTTCTGTCAGGTATTT
TCCATCTGCTGTGCCAAGGCTGAGCGGCAGAAACTTGCTCATAAATTGGCACTGATGGAGCATCAGCTGTGGCC
CACAGAGAGCCTTGCTGAGAAGGGGGCAGGTAAAGCAGAGATTTTAGCATTGCCTTGGCATAACAAGGGCCCCATC
GATTCCCTACTAATGAGAGGCAGGGAGAGCATGGGCAATGGAGACCCACCAATGATCCCCAACCCCGGTGGGTAC
TGGCTGCCTGCCCTGGGCCAGGGAATGGCTCCTTATACCAAAGATGCTGGCACATAGCAGAACCCAGTGCACGTC
CTCCCCCTCCACCCACCTCTGGCTGAAGGTGCTCAAGAGGGAAGCAATTATAAGGTGGGTGGCAGGAGGGAACA

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FIGURE 2118B

GGTGCCACCTGCTGGACAATCACACGAAAGGCAGGCGGGCTGTGTACTGGGCCCTGACTGTGCGTCCACTGCTGT
CTTCCCTACCTCACCAGGCTACTGGCAGCAGCATCCCGAGAGCACATCATCTCCACAGCCTGGTAAATTCCATGT
GCCTCTGGGTACAAAAGTGCCTCAACGACATGCTCTGGAAATCCCAAATGCCACAGTCTGAGGTTGATATCTAAA
ATCTATGCCTTCAAAAGAGTCTCTGTTTTTTTTTTTAACTGGTAGACGGTATAAAAGCAGTGCAAATAAACAC
CTAACCTTCTGC

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FIGURE 2119

MPEEMDKPLISLHLVDSDSLAKVPDEAPKVGILGSGDFARSLATRLVGSGFKVVVGSRNPKRTARLYPSAAQVT
FQEEAVSSPEVIFVAVFREHYSSLCSLSDQLAGKILVDVSNPTEQEHLOHRESNAEYLASLFTCTVVKAFNVIS
AWTLQAGPRDGNRQVPICGDQPEAKRAVSEMALAMGFMPVDMGSLASAWVEEAMPLRLLPAWKVPTLLALGLFVC
FYAYNFVRDVLQPYVQESQNKFFKLPVSVVNTTLPCVAYVLLSLVYLPGVLAALQLRRGTKYQRFDPWLDHWLQ
HRKQIGLLSFFCAALHALYSFCLPLRRAHRYDLVNLAVKQVLANKSHLWVEEEVWRMEIYLSLGVLAGTLLSLLA
VTSLPSIANSLNWREFSFVQSSLGFVALVLSTLHTLTYGWTRAFEEESRYKFYLPPTFTLTLLVPCVVILAKALFL
LPCISRRLARIRRGWERESTIKFTLPTDHALAEKTSHV

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FIGURE 2120

GACAGCAAATACTTCCGTAAAACAGACCATCAAGCTTTCCACTTAGAGCCCAGTGTGGCCCCAATACCTTTTCCTT
GTCGCTCCTGCGTGCCAGTCCGCCTCCGCGTGGTCCGGCCGCTGCGCCACGCCCCCGCTCGCCCCGCCCTGGAT
TTGCTCCCTCAAAGCTGAAGTGAGGCCGGGCTGAGGCTCTTACAGTGGTCCCTGCTGGCCCTTGGTGACGGGTCTG
CCTCAGTTCCGACCCGGACCCGTACGCTGCTGCGCTGACGTGGCTCCCGGAAGTAGGGCTGGCGTAGGGCCGCCA
TGTTGCAGCAGGATAGTAATGATGACACTGAAGATGTTTCACTGTTTGATGCGGAAGAGGAGACGACTAATAGAC
CAAGAAAAGCCAAAATCAGACATCCAGTAGCATCGTTTTTCCACTTATTCTTTTCGAGTCAGTGCAATCATCGTCT
ATCTTCTCTGTGAGTTGCTCAGCAGCAGCTTTATTACCTGTATGGTGACAATTATCTTGTTGTTGTGCTGTGACT
TTTGGGCAGTGAAGAATGTCACAGGTAGACTAATGGTTGGCCTACGTTGGTGGAATCACATTGATGAAGATGGAA
AGAGCCATTGGGTGTTTGAATCTAGAAAGGAGTCCTCTCAAGAGAATAAACTGTGTCAGAGGCTGAATCAAGAA
TCTTTTGGTTGGGACTTATTGCCTGTCCAGTACTGTGGGTGATATTTGCCTTTAGTGCACTCTTCTCCTTCAGAG
TAAAGTGGTTGGCGGTGGTTATCATGGGTGTGGTGCTACAAGGTGCCAACCTGTATGGTTACATCAGGTGTAAGG
TGCGCAAGAAAAGCATT**TAA**CCAGCATGGCTACTTCATATTTTGGAAAGCAGTTTTTAAAGACAAAACACTGGAGA
TGATCAGACTTCCTGAATAGAGAAAGCTTATGTGCTTTGTTACATTGGGGAACAACCTGAAGAGATTCTTGACTCA
ACCTTTTAGAGCTTAGTCCATGTTGCAACGAGGAGTGTGGCTTTGTTTTCCACTTAAAACTTTATTTATAAA
AAGGAAAAGTAGTTTTTATATTAAGTTTTTATTTTCTTTCCAGCAGTTGGGGCTAGAAAGTATGTGTTGGCACTA
GAAACATTGTCAAGATTTGTTCTGTGGTGTAGGTATGCACATTCCATAGGTATGCACACGGCCATGTAATATCAG
TATATCCCAAGTTAATGAAAGTGTTTACATAGGTAAATGGAGACCTTTGCATTTTGATCCATAGAACATAGG
AGGATGTTCTTAGTCTGTCTCAAAGCTCTATATGTTTACATATTATTTCTGTAGGATTGTTTTCAGGAGAAAAGTT
TTGCTTCTATGGGTAAGGAGTGAGGCACCTTTGGGCTTATGTATAAGTTAGAAATAATTGTTAGTTTTTAATATGC
ACTTCGTGGGGAAATTTCTTAGACGTATGCAAGCAAGTGAAAACAATTAGGGCCAGTGGTATTAACACTTTTATA
AAATTTTATTTTTGTTTGTAAAGATCATCTACTTAAGGCCAGTTAATATAAGTGGAATCATCATAGTTTAAGG
AATACCCAGAGATTGCTGCTGTTCTATTTATTTTACAGAAAGGTTAGCTAGATTGAAAGCTCTTCAGTGGACCTT
GAGCTAATAGATCTTTTACCCTAAAAGAGCATTATTCTCATGTGCATAATGAGAATAATAATTTACATACTTGGC
ATAATAAATGCCTAAAAGACATTTTTATTTTCTGAATCTATTTTTTTCTTGCTATAATGGGGATATTGTAAATTAT
GCATTTGTATTAATGGTATTTCTTAAAGCAATCTATGTAAGTGTAAATTAAACCAATCTACAACTATTGTAGGC
ATCTGTAAATTCTGTTGTAGGTATTATAAACTTTGTTGAAGTCTTAATCAGCAGATTATGTTGTGAATATATTG
TACATTGTTAAAATAGTTTTTAAGATTATTTGTTTAATTGAATAAGTGTCTTATTGGAGTGATAGCTTTGAAGGT
GCAAACTTTATATTTGTATAAAATTCTACTATTTACAAGGCAAA

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FIGURE 2121

MLQQDSNDDTEDVSLFDAEEETTNRPRKAKIRHPVASFFHLFFRVSAIIVYLLCELLSSSFITCMVTIILLLLSCD
FWAVKNVTGRLMVGLRWNNHIDEDGKSHWVFESRKESQENKTVSEAESRIFWLGLIACPVLWVIFAFSALFSFR
VKWLAVVIMGVVLQGANLYGYIRCKVRKKS I

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FIGURE 2122

ACGGTGGAGCGGTGGAGGGCGTCACTGGGTTTTCGGCGTCTGGCAAGCGGTTTCAGCTGTCTGCTCCCTAGCAGCCG
GCCTTCGGGTCGGGCGTCTCCGCGGCTACTGCCGCTTCAGTTCTCCCGGTGTGGCCACGAGTCGGGTTGCACTGC
TGTGATCCATCCTCATCTCCTAAAGATGCATCCTGACTTATCTCCACACTTGCACACTGAAGAATGCAACGTCTT
GATTAAC TTGCTTAAGGAATGTCACAAAAATCACAACATTCTGAAATTTTTTGGTTATTGTAATGATGTTGATCG
GGAGTTGAGAAAATGCCTGAAGAATGAGTACGTAGAAAACAGGACCAAGAGCAGGGAGCATGGCATTGCAATGCG
AAAGAACTTTTTAATCCTCCAGAGGAATCCGAAAAATAAATTGTATTTTCACTCGATGCCTTGGCTGAGAGAAG
ACCTAAAGACTCTGGGTTGATACCTGAAAGAATCCTGTCTTATTTGGTCTCCATAATCCTTTGAATGGAAAGTGA
CCTGTGAGAGATTGAACCATGGAGAAATATGAAAACCCTGGATTCTGAGTATTTGTTGGGCAGGGCGTTTAGTAC
TGTCTCCCTTTACCAGCAAACCTGACTTCACCATGTTTATTCCTTTGCCTACAACCAGTTAATACTGAGTAA
CTTATCTCCTTCAATAAAATAATTTAAATAAAAAAAAAAAAAA

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FIGURE 2123

MHPDLSPHLHTEECNVLINLLKECHKHNHILKFFGYCNDVDRELKCLKNEYVENRTKSREHGIAMRKKLFNPPE
ESEK

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FIGURE 2124

TAGCCCCGCCTCTCGCCTCGCCGCCTCGCCGTCCCGCCGCCTTGCCGCCCTGCCACCCTGCCGCCCTGCCGCCCT
GCCGCCCTGCCGCCCTGCCGCCCTGCCGCCCTGCCGCCGTGGTTCGCTGCCCGTGGTGCTCCGTCGCCCCCGCCA
CCTCACGTCTCTCCCGTTCGCTCGGGAGCGTCTCGGCTACAAC**ATG**TTGGGCATGATCAAGAACTCGCTGTTTCGGAA
GCGTAGAGACGTGGCCTTGGCAGGTCTTAAGCAAAGGGGACAAGGAAGAAGTTGCCTATGAAGAAAGGCCTGTG
AAGGCGGCAAATTTGCCACAGTAGAAGTGACAGATAAGCCTGTGGATGAGGCTCTACGGGAAGCAATGCCCAAGG
TCGCAAAGTATGCGGGGGGCACCAATGACAAGGGAATTGGGATGGGGATGACAGTCCCTATTTCTTTTGCTGTGT
TCCCCAATGAAGATGGCTCTCTGCAGAAGAAATTAAAAGTCTGGTTCCGGATTCCAAACCAATTTCAAAGCGACC
CACCAGCTCCCAGTGACAAAAGCGTTAAGATTGAGGAACGGGAAGGCATCACTGTCTATTCCATGCAGTTTGGTG
GTTATGCCAAGGAAGCAGACTACGTAGCACAAAGCCACCCGTCTGCGTGCTGCCCTGGAGGGGCACAGCCACCTACC
GGGGGGACATCTACTTCTGCACGGGTTATGACCCTCCCATGAAGCCCTACGGACGGCGCAATGAGATCTGGCTGT
TGAAGACA**TGA**GTGACCCACTGAACCAAGAACTTACTGGAAGTGTGCCTCTGTGTCTCCTTCCTCGGGGGTAAGG
AGGGGACAGTGCTTCCCAAGTTCCAGCTGCAAGTCCAACCTTAACCAACTTTCCTTCAAAGTCAGTTACTGCCAAT
TTTCTGAAAAAAGCATGTTCCATATACTAAGTCTCTTTTCTCACGGTAGGAAATAATACAGCCAAGATATGCAGC
ATCCTTCTCATTGATGTAGAAAATTCTGCGATAGACCAGAAAAATCCTGGCAGCTTTTCTCCAGGCATCTGGGTC
ACTAAAAACTGATTTTCTAAAATTATTGGATTTGTATTTTGTATTATAAGGGGGAAAATGTGATTTGTGCCTGATC
TTTCATCTGTGATTCTTATAAGAGCTTTGTCTTCAGAAAACTAAAAATAAAAGGCATTGACTTAAACAGCTGA

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FIGURE 2125

MLGMIKNSLFGSVETWPWQVLSKGDKEEVAYEERACEGGKFATVEVTDKPVDEALREAMPKVAKYAGGTNDKGIG
MGMTVPISFAVFPNEDGSLQKKLVWFRIPNQFQSDPPAPSDKSVKIEEREGITVYSMQFGGYAKEADYVAQATR
LRAALEGTATYRGDIYFCTGYDPPMKPYGRRNEIWLLKT

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FIGURE 2126

AATAACCTGGAGCCGGCGGCGTAGGTTGGCTCTTTAGGGCTTCACCCCGAAGCTCCACCTTCGCTCCCGTCTTTC
TGGAAACACCGCTTTGATCTCGGCGGTGCGGGACAGGTACCTCCCGGCTGCTGCGGGTGCCCTGGATCCAGTCGG
CTGCACCAGGCGAGCGAGACCCTTCCCTGGTGGAGGCTCAGAGTTCCGGCAGGGTGTCATCCGGCCTGTGTGTGGC
GCGAGGCAGGGAAGCCGGTACCCGGGTCTGGCCCCAGCGCTGACGTTTTCTCTCCCTTTCTTCTCTCTTCGCG
GTTGCGGCGTTCGACAGCTAGTGTGAGCCCCC**ATGC**GAGATACGACCCCGAGCGGCCCCCAAGGGGCGGGCGCT
GTGCAATTCATGATGACCAATAAACTGGACACGGCAATGTGGCTTTCTCGCTTGTTACAGTTTACTGCTCTGCT
CTGTTTGTCTGCCTCTTCTTGGGTTGCATGAAGCAGCAAGCTTTTACCAACGTGCTTTGCTGGCAAATGCTCTT
ACCAGTGCTCTGAGGCTGCATCAAAGATTACCACACTTCCAGTTAAGCAGAGCATTCTGGCCCAGGCTTTGTTA
GAGGACAGCTGCCACTACCTGTTGTATTCACTCATCTTTGTAAATTCCTATCCAGTTACAATGAGTATCTTCCCA
GTCTTGTTATTCTCTTTGCTTCATGCTGCCACATATACGAAAAAGGTCCTTGACGCAAGGGGCTCAAATAGTTTA
CCTCTGCTGAGATCTGTCTTGGACAAATTAAGTGCTAATCAACAAAATATTCTGAAATTCATTGCTTGCAATGAA
ATATTCCTGATGCCTGCGACAGTTTTTATGCTTTTTAGTGGTCAAGGAAGTTTGCTCCAACCTTTTATATACTAT
AGATTTCTTACCCTTCGATATTTCGTCTCGAAGAAACCATATTGTCGGACCTTATTTAATGAACTGAGGATTGTT
GTTGAACACATAATAATGAAACCTGCTTGCCCACTGTTTGTGAGAAGACTTTGTCTCCAGAGCATTGCCTTTATA
AGCAGATTGGCACCAACAGTTCCA**TAGT**TTTAACATCTAGTTAAGCTACAAATATAGTATAAGCATTATTAGCAGC
TGGTACTTCTGCTAGGGGTTGTAAATTCAGGTGTTACACTGACCTCAATCCAATTTACATAATTTACATAAATG
CATCTCGGTGGAAAAATAATCATTTTTCTTGGCATGTTAAATCAAGCTTAAAAAGTTTTGAGAAAAATTTACTGTG
CTGTGTTGCTAATGGTTAAAGAAGTCTGTATCTAGTGATAAATATACCAGTTTTTTTTAAAAAGATGCTGTTGTGC
CTATATCATGAAGTACATTAATTTCTCATGTAAAAAAAATAGCTCTAAAATTTGTTTCAACCTAATTGGTAACCT
GAGTTTATATCTGGCATGAATTCATTATGGTGATACACATATGTGAATTCAGTACATTTTGAGACAGTATTCTAC
CATTGAGTAATTTTTGGTTAATGATTTTAAACACTTCTCAGTGTATTTAATTTCAAATTTGTTTTTTAATTGGTTTT
ATGCTGCTTTGTTAGGACAGATGTGTTTTGAATGTACCATTATAAGAAGAATTCTATGTATCTTAACTATGATC
TTCTAAAAATTTTATTTCCGTAAGTACTTCTGTGGCCTTGAGTATTTTTTAAAAGGCTCAACTGTAAGCCTCTTAG
CCAGTTGGATAAATATTTGGGGTCACCTAGCCATTGAAAGCAGAAAGCAGTAGTGACACAGCTTTCCCTTCAAAG
AGCCATTGAGAAACATTTCTCAAACAGGAAATCCTTCTTTTACTAATGTGGACATATAGATTATTCGTATTATAG
TTTGTAGAACTACCTAGTTCAGAATCTTGACTGCCAGTTTTCTTGGTTTCTTAGGCTTGAATTTTCATAGACAAT
TGCAACAGTTTAGATGCCTTTTGAAAGGAATGTAATGAAGATTCAGCATCTGACTATATGTGTGTCTATCCTGAA
ATAATAATGGAGAGTATACTGTAGATTACATGTTTACCCATCAAATCTGACTTAAAAGGTTAAATGGAAGGTTTT
ATAGGTAAGGTAATTGATTGGGAATGGGGTAGGGGAGGAGTTGTGGGGGAATAATGTGCATTTCAAGTCTCAACG
CATAGATAAAATTTAGGGGAATTGGATGCATTATTCAACTTTGATTTGGGTTGTAAAATGTGTTAAATCCTGTTCA
TTGAACTCCCATCAACTCTTATGAAATTCATGCTGATCTTCATTACCGTTGCATGATTGGAAATGTTTAAACAT
TGTACAGTTTTAGTATAGAGAAATGTAATGGTTTTTGTGACCAGTTTCTGTCTGCATGTAATTTGGATTTCTCAA
ATACATTCAATTAGTAATTTATCAGTAACATTAGTTTTATTTTTGTTTCATCTCCTTATCTATAAAAAGGGGATATT
CTTAGGATAAAATACATGAAAAATTATACTTGATAGCTTAACTATAATCAGCTATTTTTGTATTTTTGTAAATTTT
GTCCACTAAGCTGGAGAAGCAGCCTCATACAGTTGATTTTGTGTATGTGGCTAGTCTTATTGTCACTATGTAAGT
AATCCAATGGTTTTAGAACTAACTTTCTAGAGCAATAAAATGACTATAATGTTAAGT

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FIGURE 2127

MADTTPSGPQGAGAVQFMMTNKLDTAMWLSRLFTVYCSALFVLPLLGLHEAASFYQRALLANALTSALRLHQRLP
HFQLSRAFLAQALLED SCHYLLYS LIFVNSYPVTMSIFPVLLFSL LHAATYTKKVLDARGSNSLP LLRSVLDKLS
ANQQNILKFIACNEIFLMPATVFMLFSGQGSLLQPFIYYRFLTLRYSSRRNPYCRTL FNELRIVVEHIIMKPACP
LFVRRCLQSI AFISRLAPTVP

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FIGURE 2128

ATAATAATTAGGCCAAGCGTTGAATAGTACGGGGGGGGGGGGGGGGGGCGAGCCCCGGCGGCTCTGGCCGCGGCCGC
ACTCAGCGCCACGCGTCGAAAGCGCAGGCCCGAGGACCCGCCGCACTGACAGTATGAGCCGCACAGCCTACACG
GTGGGAGCCCTGCTTCTCCTCTTGGGGACCCTGCTGCCGGCTGCTGAAGGGAAAAAGAAAGGGTCCCAAGGTGCC
ATCCCCCGCCAGACAAGGCCAGCACAATGACTCAGAGCAGACTCAGTCGCCCCAGCAGCCTGGCTCCAGGAAC
CGGGGGCGGGGCCAAGGGCGGGGCACTGCCATGCCCGGGGAGGAGGTGCTGGAGTCCAGCCAAGAGGCCCTGCAT
GTGACGGAGCGCAAATACCTGAAGCGAGACTGGTGCAAAACCCAGCCGCTTAAGCAGACCATCCACGAGGAAGGC
TGCAACAGTCGCACCATCATCAACCGCTTCTGTTACGGCCAGTGCAACTCTTTCTACATCCCCAGGCACATCCGG
AAGGAGGAAGGTTCCCTTTTCTAGTCCTGCTCCTTCTGCAAGCCCAAGAAATTCCTACTACCATGATGGTCACACTCAAC
TGCCCTGAACTACAGCCACCTACCAAGAAGAAGAGAGTGCACACGTGTGAAGCAGTGTGCTTGCATATCCATCGAT
TTGGATTAAGCCAAATCCAGGTGCACCCAGCATGTCTTAGGAATGCAGACCCAGGAAGTCCCAGACCTAAAACAA
CCAGATTCTTACTTGGCTTAAACCTAGAGGCCAGAAGAACCCCCAGCTGCCTCCTGGCAGGAGCCTGCTTGTGCG
TAGTTCGTGTGCATGAGTGTGGATGGGTGCCTGTGGGTGTTTTTAGACACCAGAGAAAACACAGTCTCTGCTAGA
GAGCACTTCCTATTTTGTAAACCTATCTGCTTTAATGGGGATGTACCAGAAACCCACCTCACCCCGGCTCACATC
TAAAGGGGCGGGGCCGCTGGTCTGGTTCTGACTTTGTGTTTTTGTGCCCTCCTGGGGACCAGAATCTCCTTTTCGGA
ATGAATGTTTCATGGAAGAGGCTCCTCTGAGGGCAAGAGACCTGTTTTAGTGCTGCATTTCGACATGGAAAAGTCTCT
TTTAACTGTGCTTGCATCCTCCTTTTCTCCTCCTCCTCACAATCCATCTCTTCTTAAGTTGACAGTGACTATGT
CAGTCTAATCTCTTGTGTTTGCCAGGGTTCCTAAATTAATTCCTTAACCATGATGCAATGTTTTTCATTTGGTGA
AGACCTCCAGACTCTGGGAGAGGCTGGTGTGGGCAAGGACAAGCAGGATAGTGGAGTGAGAAAAGGGAGGGTGGAG
GGTGAGGCCAAATCAGGTCCAGCAAAAGTCAGTAGGGACATTGCAGAAGCTTGAAAGGCCAATACCAGAACACAG
GCTGATGCTTCTGAGAAAGTCTTTTTCTAGTATTTAACAACCCCAAGTGAACAGAGGAGAAATGAGATTGCCAG
AAAGTGATTAACTTTGGCCGTTGCAATCTGCTCAAACCTAACACCAAACCTGAAAACATAAAATACTGACCCTCCT
ATGTTTCGGACCCAAGCAAGTTAGCTAAACCAAACCAACTCCTCTGCTTTGTCCCTCAGGTGGAAGAGAGGTAG
TTTAGAACTCTCTGCATAGGGGTGGGAATTAATCAAAAACCTCAGAGGCTGAAATTCCTAATACCTTTCTTTTAT
CGTGGTTATAGTCAGCTCATTTCATTCCACTATTTCCATAATGCTTCTGAGAGCCACTAACTTGATTGATAAA
GATCCTGCCTCTGCTGAGTGTACCTGACAGTAGTCTAAGATGAGAGAGTTTAGGGACTACTCTGTTTTAACAAGA
AATATTTTGGGGGTCTTTTTGTTTTAACTATTGTGTCAGGAGATTGGGCTAAAGAGAAGACGACGAGAGTAAGGAAA
TAAAGGGAATTGCCCTCTGGCTAGAGAGTAGTTAGGTGTTAATACCTGGTAGAGATGTAAGGGATATGACCTCCCT
TTCTTTATGTGCTCACTTGAGGATCTGAGGGGACCCTGTTAGGAGAGCATAGCATCATGATGTATTAGCTGTTCA
TCTGCTACTGGTTGGATGGACATAACTATTGTAACCTATTGAGTATTTACTGGTAGGCACTGTCTCTGATTAAAC
TTGGCCTACTGGCAATGGCTACTTAGGATTGATCTAAGGGCCAAAGTGCAGGGTGGGTGAACCTTTATTGTACTTT
GGATTTGGTTAACCTGTTTTCTCAAGCCTGAGGTTTTATATACAACTCCCTGAATACTCTTTTTGCCTTGTTA
CTTCTCAGCCTCCTAGCCAAGTCCTATGTAATATGGAAAACAAACACTGCAGACTTGAGATTGAGTTGCCGATCA
AGGCTCTGGCATTTCAGAGAACCCTTGCAACTCGAGAAGCTGTTTTTGATTTTCGTTTTTGTGTTTGAACCGGTGCTC
TCCCATCTAACAATAACAAGGACCATTTCCAGGCGGGAGATATTTTAAACACCCAAAATGTTGGGTCTGATTTT
CAAACCTTTTAACTCACTACTGATGATTCTCACGCTAGGCGAATTTGTCCAAACACATAGTGTGTGTGTTTTGTA
TACACTGTATGACCCACCCCAAATCTTTGTATTGTCCACATTCTCCAACAATAAAGCACAGAGTGGAATTAATT
AAGCACACAAATGCTAAGGCAGAATTTTGGGGTGGGAGAGAAGAAAAGGGAAAGAGCTGAAAATGTAAACCA
CACCAGGGAGGAAAAATGACATTTCAGAACCAACCAAACTGAATTTCTCTTGTGTTTTAACTCTCCCACAAGAA
TGCAATTTTCGTTAATGGAGATGACTTAAGTTGGCAGCAGTAATCTTCTTTTAGGAGCTTGTACCACAGTCTTGCA
CATAAGTGCAGATTTGCCCAAGTAAAGAGAATTTCTCAACACTAACTTCACGGGGATAATCACCACGTAACCTA
CCCTTAAAGCATATCACTAGCCAAAGAGGGGAATATCTGTTCTTCTTACTGTGCCTATATTAAGACTAGTACAAA
TGTGGTGTGTCTTCCAACCTTTTATTGAAAATGCCATATCTATACCATATTTTATTTCGAGTCACTGATGATGTAAT
GATATATTTTTTTCATTATTATAGTAGAATATTTTATGGCAAGAGATTTGTGGTCTTGATCATACCTATTAAAAAT
AATGCCAAACACCAAATATGAATTTTATGATGTACACTTTGTGCTTGGCATTAAAGAAAAAAACACACACGCC

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FIGURE 2129

MSRTAYTVGALLLLLGTLTPAAEGKKKGSQGAIPPPDKAQHNDSEQTQSPQQPGSRNRGRGQGRGTAMPGEEVLE
SSQEALHVTERKYLKRDWCKTQPLKQTIHEEGCNSRTIINRFCYGQCNSFYIPRHIRKEEGSFQSCSFCKPKKFT
TMMVTLNCPELQPPTKKKRVTRVKQCRCISIDLD

CGGCGCGCACTCAGCGCCACGCGTCTGAAAGCGCAGGCCGCCGAGGACCCGCCGCACTGACAGTATGAGGCCGCGCACAG
CCTACACGGTGGGAGCCCTGCTTCTCTCTTGGGGACCCCTGCTGCCGGCTGCTGAAGGGAAAAAGAAAGGGTCCC
AAGGTGCCATCCCCCGCCAGACAAGGCCAGCACAATGACTCAGAGCAGACTCAGTCGCCCCAGCAGCCTGGCT
CCAGGAACCGGGGGCGGGGCCAAGGGCGGGGCACTGCCATGCCCGGGGAGGAGGTGCTGGAGTCCAGCCAAGAGG
CCCTGCATGTGACGGAGCGCAAATACCTGAAGCGAGACTGGTGCAAACCCAGCCGCTTAAGCAGACCATCCACG
AGGAAGGCTGCAACAGTCGCACCATCATCAACCGCTTCTGTTACGGCCAGTGCAACTCTTTTCTACATCCCCAGGC
ACATCCGGAAGGAGGAAGGTTCCCTTTCAGTCCTGCTCCTTCTGCAAGCCCAAGAAATTCACTACCATGATGGTCA
CACTCAACTGCCCTGAACTACAGCCACCTACCAAGAAGAAGAGAGTACACGTGTGAAGCAGTGTGCTTGCATAT
CCATCGATTTGGATTAAGGCCAAATCCAGGTGCACCCAGCATGTCTTAGGAATGCAGCCCCAGGAAGTCCCAGACC
TAAACAACCCAGATTCTTACTTGGCTTAAACCTAGAGGCCAGAAGAACCCCCAGCTGCCTCCTGGCAGGAGCCTG
CTTGTGCGTAGTTTCGTGTGCATGAGTGTGGATGGGTGCCTGTGGGTGTTTTTAGACACCAGAGAAAAACACAGTCT
CTGCTAGAGAGCACTCCCTATTTTGTAAACATATCTGCTTTAATGGGGATGTACCAGAAACCCACCTCACCCCGG
CTCACATCTAAAGGGGCGGGGCCGTGGTCTGGTTCTGACTTTTGTGTTTTTGTGCCCTCCTGGGGACCAGAATCTC
CTTTCGGAATGAATGTTTCATGGAAGAGGCTCCTCTGAGGGCAAGAGACCTGTTTTAGTGCTGCATTTCGACATGGA
AAAGTCCTTTTAACTGTGCTTGCATCCTCCTTTCCTCCTCCTCCTCACAATCCATCTCTTCTTAAGTTGATAGT
GACTATGTCAGTCTAATCTCTTGTGTGCAAGGTTCCATAAATTAATCACTTAACCATGATGCAAATGTTTTTCA
TTTTGTGAAGACCCCTCCAGACTCTGGGAGAGGCTGGTGTGGGCAAGGACAAGCAGGATAGTGGAGTGAGAAAGGG
AGGGTGGAGGGTGAGGCCAAATCAGGTCCAGCAAAAGTCAGTAGGGACATTGCAGAAGCTTGAAAGGCCAATACC
AGAACACAGGCTGATGCTTCTGAGAAAGTCTTTTCTTAGTATTTAACAGAACCCAAGTGAACAGAGGAGAAATGA
GATTGCCAGAAAGTGATTAACTTTGGCCGTTGCAATCTGCTCAAACCTAACACCAAACCTGAAAACATAAAATACTG
ACCACTCCTATGTTTCGGACCCAAGCAAGTTAGCTAAACCAAACCAACTCCTCTGCTTTGTCCCTCAGGTGGAAAA
GAGAGGTAGTTTAGAACTCTCTGCATAGGGGTGGGAATTAATCAAAAACCKCAGAGGCTGAAATTCCTAATACT
TTCTTTTATCGTGGTTATAGTCAGCTCATTTCCATTCCACTATTTCCCATAATGCTTCTGAGAGCCACTAACTTG
ATTGATAAAGATCCTGCCTCTGCTGAGTGTACCTGACAGTAAGTCTAAAGATGARAGAGTTTAGGGACTACTCTG
TTTTAGCAAGARATATTKTGGGGGTCTTTTTGTTTTAACTATTGTCAGGAGATTGGGCTARAGAGAAGACGACGA
GAGTAAGGAAATAAAGGGGATTGCTCTGGCTAGAGAGTAAGTTAGGTGTTAATACCTGGTAGAAATGTAAGGGA
TATGACCTCCCTTTCTTTATGTGCTCACTGAGGATCTGAGGGGACCCGTGTTAGGAGAGCATAGCATCATGATGTA
TTAGCTGTTTCATCTGCTACTGGTTGGATGGACATAACTATTGTAACCTATTTCAGTATTTACTGGTAGGCACTGTCC
TCTGATTAACTTTGGCCTACTGGCAATGGCTACTTAGGATTGATCTAAGGGCCAAAGTGCAGGGTGGGTGAACTT
TATTGTACTTTGGATTTGGTTAACTGTTTTCTTCAAGCCTGAGGTTTTATATACAAACTCCCTGAATACTCTTT
TTGCCCTTGATCTTCTCAGCCTCCTAGCAAAGTCTATGTAATATGGAAAACAAACACTGCAGACTTGAGATTCA
GTTGCCGATCAAGGCTCTGGCATTTCAGAGAACCCTTGCAACTCGAGAAGCTGTTTTTATTTTCGTTTTTGTGTTTGA
TCCAGTGCTCTCCCATCTAACAACCTAAACAGGAGCCATTTCAAGGCGGGAGATATTTTAAACACCCAAAATGTTG
GGTCTGATTTTTCAAACTTTTAAACTCACTACTGATGATTCTCACGCTAGGCGAATTTGTCCAAACACATAGTGTG
TGTGTTTTGTATACACTGTATGACCCCAACCCAAATCTTTGTATTGTCCACATTCTCCAACAATAAAGCACAGAG
TGGATTTAATTAAGCACACAAATGCTAAGGCAGAATTTTGAGGGTGGGAGAGAAGAAAAGGGAAAGAAGCTGAAA
ATGTAAAACCACACCAGGGAGGAAAAATGACATTGAGAACAGCAAACTGAATTTCTCTTGTGTGTTTAACTC
TGCCACAAGAATGCAATTTTCGTTAATGGAGATGACTTAAGTTGGCAGCAGTAATCTTCTTTTAGGAGCTTGTACC
ACAGTCTTGCACATAAGTGCAGATTTGGCTCAAGTAAAGAGAATTTCTCAACACTAACTTCACTGGGATAATCA
GCAGCGTAACCTAACCTAAAAGCATATCACTAGCCAAAGAGGGGAAATATCTGTTCTTCTTACTGTGCCTATATTAA
GACTAGTACAAATGTGGTGTGTCTTCCAACCTTTTATTGAAAATGCCATATCTATACCATATTTTATTTCGAGTCAC
TGATGATGTAATGATATATTTTTTTCATTATTATAGTAGAATATTTTTATGGCAAGATATTTGTGGTCTTGATCAT
ACCTATTAAAATAATGCCAAACACCAAATATGAATTTTATGATGTACACTTTGTGCTTGGCATTAAAGAAAAAA
ACACACATCCTGGAAGTCTGTAAGTTGTTTTTTGTTACTGTAGGTCTTCAAAGTTAAGAGTGTAAAGTGAATAATC
TGGAGGAGAGGATAATTTCCACTGTGTGGAATGTGAATAGTTAAATGAAAAGTTATGGTTATTTAATGTAATTAT
TACTTCAAATCCTTTGGTCACTGTGATTTCAAGCATGTTTTCTTTTTCTCCTTTATATGACTTTCTCTGAGTTGG
GCAAAGAAGAAGCTGACACACCGTATGTTGTTAGAGTCTTTTATCTGGTCAGGGGAAACAAAATCTTGACCCAGC
TGAACATGCTTTCCTGAGTCAGTGCCTGAATCTTTATTTTTTAAATGTAATGTTTCTTAAAGGTTAACATTTCTA

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FIGURE 2130B

AAGCAATATTAAGAAAGACTTTAAATGTTATTTTGGAAAGACTTACGATGCATGTATACAAACGAATAGCAGATAA
TGATGACTAGTTCACACATAAAGTCCTTTTAAGGAGAAAATCTAAAATGAAAAGTGGATAAACAGAACATTTATA
AGTGATCAGTTAATGCCTAAGAGTGAAAGTAGTTCTATTGACATTCCTCAAGATATTTAATATCAACTGCATTAT
GTATTATGTCTGCTTAAATCATTTAAAAACGGCAAAGAATTATATAGACTATGAGGTACCTTGCTGTGTAGGAGG
ATGAAAGGGGAGTTGATAGTCTCATAAACTAATTTGGCTTCAAGTTTCATGAATCTGTAAC TAGAATTTAATTT
TCACCCCAATAATGTTCTATATAGCCTTTGCTAAAGAGCAACTAATAAATTAAACCTATTCTTTCAAAAAAAAAA

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FIGURE 2131

MSRTAYTVGALLLLLGTLLPAAEGKKKGSQGAIPPPDKAQHNDSEQTQSPQQPGSRNRGRGQGRGTAMPGEEVLE
SSQEALHVTERKYLKRDWCKTQPLKQTIHEEGCNSRTIINRFCYGQCNSFYIPRHIRKEEGSFQSCSFCKPKKFT
TMMVTLNCPQLPPTKKKRVTRVKQCRCISIDL

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FIGURE 2132

GCCCCGCTGTTGCGTGCTGCCAGCGGGAAGTGTGTAGGGGTAGATTTTCGCTGCAGTGTTCCCCGAGCCTGTTAGA
CGCAGCGCGCCGGGAGACTGAGAGAGGAAAAGGATAGAGGAAGTGCTGCCCTAGGCTGCATGAGTCGAAGCAAGCG
TGTTTCCTTCCCGCCAGGCAAGTGCCCTTAGAAAACCGGGCCCCGCCCCCTTCCTGGCCATGCAATCCCATCCCCTC
TCCCGGGGCGGAGGTGAGGACCTCTTTGGTTCTTTGGTTCTGTGTCAGTGAGCCCCCTTCCTTGGCCATGCAAGCTCG
TGAGGAAGAACATCGAGAAGGACAATGCGGGCCAGGTGACCCTGGTCCCCGAGGAGCCTGAGGACATGTGGCACA
CTTACAACCTCGTGTCAGGTGGGCGACAGCCTGCGCGCCTCCACCATCCGCAAGGTACAGACAGAGTCCTCCACGG
GCAGCGTGGGCAGCAACCGGGTCCGCACTACCTCACTCTCTGCGTGGAGGCCATCGACTTCGACTCTCAAGCCT
GCCAGCTGCGGGTTAAGGGGACCAACATCCAAGAGAATGAGTATGTCAAGATGGGGGCTTACCACACCATCGAGC
TGGAGCCCAACCGCCAGTTACCCCTGGCCAAGAAGCAGTGGGATAGTGTGGTACTGGAGCGCATCGAGCAGGCCT
GTGACCCAGCCTGGAGCGCTGATGTGGCGGCTGTGGTCATGCAGGAAGGCCTCGCCCATATCTGCTTAGTCACTC
CCAGCATGACCCTCACTCGGGCCAAGGTGGAGGTGAACATCCCTAGGAAAAGGAAAGGCAATTGCTCTCAGCATG
ACCGGGCCTTGGAGCGGTTCTATGAACAGGTGGTCCAGGCTATCCAGCGCCACATACACTTTGATGTTGTAAAGT
GCATCCTGGTGGCCAGCCAGGATTTGTGAGGGAGCAGTTCTGCGACTACATGTTTCAACAAGCAGTGAAGACCG
ACAACAAACTGCTCCTGGAAAACCGGTCCAAATTTCTTCAGGTACATGCCTCCTCCGGACACAAGTACTCCCTGA
AAGAGGCCCTTTGTGACCCTACTGTGGCTAGCCGCCTTTTCAGACACTAAAGCTGCTGGGGAAGTCAAAGCCTTGG
ATGACTTCTATAAAATGTTACAGCATGAACCGGATCGAGCTTTCTATGGACTCAAGCAGGTGGAGAAGGCCAATG
AAGCCATGGCAATTGACACATTGCTCATCAGCGATGAGCTCTTCAGGCATCAGGATGTAGCCACACGGAGCCGGT
ATGTGAGGCTGGTGGACAGTGTGAAAGAGAATGCAGGCACCGTTAGGATATTCTCTAGTCTTCACGTTTCTGGGG
AACAGCTCAGCCAGTTGACTGGGGTAGCTGCCATTCTCCGCTTCCCTGTTCCCGAACTTTCTGACCAAGAGGGTG
ATTCCAGTTCTGAAGAGGATTAATGATTGAAACTTAAAAATTGAGACAATCTTGTGTTTCTAAACTGTTACAGTA
CATTTCTCAGCATCCTTGTGACAGAAAGCTGCAAGAAGGGCACTTTTTGATTTCATACAGGGATTTCTTATGTCTT
TGGCTACACTAGATATTTTGTGATTGGCAAGACATGTATTTAAACATAAACTAAAAGGAAATAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 2133

MKLVRKNIEKDNAGQVTLVPEEPEDMWHTYNLVQVGDSLRASTIRKVQTESSTGSGVGSNRVRTTLTLCVEAIDFD
SQACQLRVKGTNIQENEYVKMGAYHTIELEPNRQFTLAKKQWDSVVLERIEQACDPAWSADVAAVVMQEGLAHIC
LVTPSMTLTRAKVEVNIIPRKRKGNC SQHDRALERFYEQVVQAIQRHIFDVVKCILVASPGFVREQFCDYMFQQA
VKTDNKLLLENRSKFLQVHASSGHKYS LKEALCDPTVASRLSDTKAAGEVKALDDFYKMLQHEPDRAFYGLKQVE
KANEAMAIDTLLISDELFRHQDVATRSRYVRLVDSVKENAGTVRIFSSLHVSGEQLS QLTGVAAILRFPVPELSD
QEGDSSSEED